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Understanding Martian Salts and Their Implications for Liquid Water

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Understanding Martian Salts and Their Implications for Liquid Water

A dissertation submitted in partial fulfillment
of the requirements for the degree of
Doctor of Philosophy in Space and Planetary Sciences

by

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Abstract

Water is one of the key components for life as we know it. The existence of salts on Mars has been a large contributing factor to the possibility of habitability, due to their ability to allow liquid water to remain stable at colder temperatures. Salts, including perchlorates, chlorates, and chlorides, have been detected by multiple landers, rovers, and orbiters, and are now believed to be ubiquitous on Mars. One of the pathways to liquid brine solutions is through deliquescence. Deliquescence is the transition from a solid salt crystal into an aqueous solution when exposed to a humid atmosphere. This research explores the deliquescence process in a laboratory setting, field site in the Atacama Desert, and through modeling. The first half of this work focused on experiments conducted in the Ares Mars simulation chamber at the Keck Lab at the University of Arkansas. Calcium perchlorate mixed with JSC Mars-1 with ~20% relative humidity and temperatures ranging from 274- 278 K were tested to see if deliquescence can occur under those conditions and if so, does regolith darkening occur. Part two of the experiments focused on expanding the Mars simulation chamber's protocol to allow higher humidity in the chamber. Deliquescence/efflorescence cycling was examined in the Atacama Desert, when multiple pure salts and a sample of calcium perchlorate mixed with Atacama soil were exposed to desert conditions over seven months. Electric conductivity, relative humidity, and temperature were recorded to verify if the cycling had occurred. Finally, ternary mixtures of chloride, chlorate, and perchlorate with either calcium or magnesium were modeled at temperatures from 273-223 K to determine what salts would provide the most stability for a briny solution in Mars-like conditions. The evaporation model ascertained the deliquescence relative humidity and eutonic humidity point and their corresponding salt mixtures.

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Dedication

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List of Published Chapters

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Chapter 1

Introduction

1.1 Water on Mars

Water has always been deemed one of (if not the most) essential factors for life. As humans started looking past Earth, the ability for a planet or moon to host water has been the big indicator of habitability. Mars has been on the radar for a potentially habitable (or in the past habitable) planet for quite a while. Percival Lowell led the community in popularizing the idea of life on Mars (Lowell, 1906), imagining a race of Martians constructing a network of canals to bring water from the poles to the inhabitants at the equator. Many people tried to identify hydrogen and water vapor in the martian atmosphere and finally succeeded in 1963 (Spinrad and Richardson, 1963). Back then the polar caps were assumed to be water ice by most, with only a few scientists arguing for CO₂ ice (Kuiper, 1952; Moroz, 1964). It is now known that the winter caps at both poles are primarily composed of CO₂ ice, but there is a permanent (or perennial) cap of water ice during the summer at the northern pole, and an underlain water ice cap at the southern pole (Kieffer et al., 1976; Kieffer, 1979).

Mariner 4 in 1965 disappointed many when images were sent back to Earth. The surface looked old and dominated by impact craters. The surface had not experienced the level of erosion, or tectonic activity compared to Earth. Little erosion meant that liquid water had probably not played a large role in the planet's geomorphology for billions of years (Leighton et al., 1965). It was calculated that atmospheric pressure was as low as 5 mbar (Johnson, 1965), precluding that liquid water could exist; liquid water would rapidly boil or freeze at such low temperatures and pressures since temperature and the partial pressure of water are below the triple point of water (~600 Pa) (Gucker and Seifert, 1966). We know the pressure ranges from 3

– 12.4 mbar, with the average surface pressure being just over 6 mbar (Haberle et al., 2001). Mariner 9 in 1971 was the mission that caused the revolution for the search of water on Mars. Mariner 9 sent back images showing huge river valleys and other evidence that water once flowed on the surface (Milton, 1973; Masursky, 1973). Images showed that floods of water carved deep valleys, eroded grooves bedrock, and traveled thousands of kilometers (Masursky, 1973; Milton, 1973).

Since the Mariner missions, many orbiters, landers, and rovers have been launched to explore the Red Planet, some with the mission of looking for evidence of life. The Mars Global Surveyor's Thermal Emission Spectrometer (TES) instrument determined mineral composition on the surface of Mars and can give information on the presence or absence of water in ancient times. TES identified a 30,000 km² area in the Nili Fossae formation that contained the mineral olivine (Hoefen et al., 2003). In July 2008 the Phoenix lander, whose mission was to study water in the northern polar regions, confirmed the presence of water ice at the landing site (Mellon et al., 2009). Potential water droplets were directly observed on the lander struts (Rennó et al., 2009) and evidence of transient liquids in the martian regolith was discovered by Stillman and Grimm (2011) using dielectric measurements. Since Phoenix, rovers, landers, and orbiters have found copious evidence for past water on Mars. Opportunity suggests that the sulfate deposits it analyzed could contain up to 22% water by weight (Clark et al., 2005). Curiosity found direct evidence of ancient streambeds in Gale crater, caused by an ancient vigorous flow of water (Brown et al., 2012), as well as analyzed carbonate and clay minerals (Bristow et al., 2015). Perseverance even landed in a river delta. A variety of lake basins have been mapped (Cabrol and Grin, 2010), with some of these lakes believed to be formed by precipitation, while others were formed from groundwater (Irwin III et al., 2005; Fassett and Head III, 2008).

We know that water once flowed on Mars, but current Mars looks much different than in the past. That doesn't mean water is absent. Recurring Slope Lineae (RSL) are active seasonal flow features found on crater and valley walls that are believed to be formed from liquid water (McEwen et al., 2011; Chevrier and Rivera-Valentín, 2012; Levy, 2012; Grimm et al., 2014; Heinz et al., 2016); however, a purely or mostly dry flow process cannot be ruled out (Edwards and Piqueux, 2016; Dundas et al., 2017; Schmidt et al., 2017; Dundas, 2020; Gough et al., 2020). The Mars Odyssey neutron spectrometer and gamma ray spectrometer observed a significant amount of surface hydrogen globally (Boynton et al., 2007). Above 60° latitude, ice is highly abundant, with ice concentrations exceeding 25% almost everywhere and approach 100% at the poles (Feldman et al., 2004). The SHARAD and MARSIS radar sounding instruments have also confirmed that individual surface features are ice rich (Stuurman et al., 2016; Mouginot et al., 2010). The HiRISE camera onboard the Mars Reconnaissance Orbiter (MRO) found at least eight eroding slopes showing exposed water ice sheets (Dundas et al., 2018). Ground ice has also been observed at the Phoenix landing site (Mellon et al., 2009) and recently excavated craters through HiRISE (Dundas et al., 2013). Permafrost regions have shown different freeze thaw features, like stripes and polygons, indicative of active water and ice water (ie. Mellon, 1997; Hiesinger and Head III, 2000; Seibert and Kargel, 2001). Glaciers are also still present on Mars, although they are not as prevalent as they once were. Lobate debris aprons have been observed with evidence of ice lying beneath a few meters of rock debris (Plaut et al., 2009). Rock-covered glaciers have been found on the floors of most channels with the fretted terrain found around Arabia Terra (Head III and Marchant, 2006). While most of these features are on or below the surface of Mars, water is also present in the atmosphere. The martian atmosphere varies relative humidity throughout the day and can get up to 100% humidity in the early morning, when it is

the coldest (Zent et al., 2010). The atmospheric column has been analyzed by multiple missions and varies on location and season between on average 3- 20 precipitable μm , and with peaks up to 70 precipitable μm above the northern polar cap (Owen and Mason, 1969; Smith, 2004; Smith et al., 2006; Harri et al., 2014). Mars may not be as wet as it once was, but there is still plenty of evidence that water is present and active today.

1.2 Salts on Mars

It was quickly realized that liquid pure water would not last on the surface on Mars, due to temperature and pressure. The best way for liquid water to remain liquid at or near the surface is to add salt. Salt lowers the freezing temperature and increases the boiling temperature (Brass, 1980; Chevrier et al., 2009), lowers the evaporation rate (Altheide et al., 2009; Hanley et al., 2012), and since the low thermal conductivity of the salts could increase the probability of sporadically stable liquid water on Mars (Prieto-Ballesteros et al., 2006; Kargel et al., 2007). Brine solutions were suggested to be present on Mars in the late 1970s (Toulmin et al., 1977; Clark, 1978) with ternary phase diagrams of chloride and sulfate brines showing brines can be stable on the surface of Mars (Brass, 1980). While both Viking landers detected unusual amount of chlorine and sulfates in the martian regolith (Clark et al., 1982), it wasn't until the Phoenix lander, that it was realized it wasn't just chlorine but also perchlorates (Hecht et al., 2009; Kouanves et al., 2014). After the Curiosity rover detecting perchlorates and the Mars Odyssey orbiter globally detecting chlorine atoms, it is now believed that perchlorates and other salts are ubiquitous on Mars (Ming et al., 2014; Diez et al., 2009). Chlorine and perchlorate salts have been detected in a variety of ways including wet chemistry, gamma ray spectroscopy, reflection spectroscopy in near and mid-infrared wavelengths, X-ray, and laser-induced optical emissions (Clark and Kouanves, 2015).

One of the main ways liquid water can occur with salts is through a process called deliquescence (Zorzano et al., 2009; Gough et al., 2011; 2014; Nuding et al., 2014). Deliquescence is the transition from a solid salt crystal into an aqueous solution when exposed to a humid atmosphere. It occurs when the ambient temperature is above a salt's eutectic point, and when the relative humidity with respect to liquid is above the Deliquescence Relative Humidity (DRH) threshold. There are multiple pathways to study deliquescence. One way is to conduct physical experiments, either at room temperature or pressure or in a simulated chamber to reach more Mars-like conditions, with varying salts to better understand how the salt adsorbs water and forms a brine (Zorzano et al., 2009, Gough et al., 2011; 2014; 2016; Nuding et al., 2014; Nikolakakos and Whiteway, 2015; 2018; Fernanders et al., 2022). Another way is to explore the properties of the salts themselves, like the eutectic temperature (Chevrier et al., 2009; Möhlman and Thomsen, 2011; Primm et al., 2017; 2020), the water activity and solubility (Möhlman and Thomsen 2011; Toner and Catling, 2018), and how the salts hydrate and dehydrate (Gough et al., 2019). Deliquescence can also be studied by applying conditions that would allow deliquescence to occur and determining where on Mars those conditions are met (Chevrier et al., 2009; Martin-Torres et al., 2015; Rivera-Valentín et al., 2018; 2020; Chevrier et al., 2020). Recently, work has been done to map the percentage of the year that calcium perchlorate and magnesium perchlorate could remain liquid throughout a Martian year (Rivera-Valentín et al., 2020), with calcium perchlorate remaining a liquid for up to 2% of the year in some areas

While brine formation through deliquescence is determined, some experiments suggest that the kinetics of deliquescence may be too slow to form brines under Mars-relevant relative humidity and temperature (Fisher et al., 2014). Additionally, salts in the regolith may be competing for water vapor against other processes, such as solid-state salt hydration (Vaniman et

al., 2004; Gough et al., 2020) and adsorption (Zent et al., 1993; Chevrier et al., 2008; Rivera-Valentín & Chevrier, 2015; Savijärvi et al., 2020), although Slank et al. (2022) suggests salt in the regolith may work with adsorption to uptake water vapor instead of competing against it. These processes are dependent on temperature and the availability of water. Solid-state salt hydration occurs when water is incorporated into a salt's crystal structure. This process is facilitated at low temperatures and high humidity (Gough et al., 2019; 2020). On the reverse end, dehydration occurs at high temperature and low humidity. As water vapor diffuses in a porous regolith, low energy collisions with grains lead to the adsorption of water molecules (Langmuir, 1932). Generally, water vapor adsorption is facilitated at low temperatures and high humidity, while at high temperatures and low humidity adsorbed water molecules readily desorb back into the local atmosphere.

While the exact parameters of brine formation and deliquescence are still being determined, it is safe to say that brines are best chance for liquid water on the surface and near sub-surface of Mars. Brine formation could help answer some of the leading questions about habitability on Mars, both past and present.

1.3 Dissertation Science Goals and Objectives

1.3.1 Goals

The stability and depth of water ice on Mars is primarily controlled by the diffusive and thermal properties of the regolith (Shorghofer and Aharonson, 2005). Although diffusion can explain water ice's stability over long timescales (Mellon et al., 2009; Hudson et al., 2007; Shorghofer, 2007), the short-term timescales of the dynamics of water vapor (day to year), remains poorly characterized. The main goal of this dissertation is to better understand how salts affect liquid

water on the surface and near sub-surface of Mars at these short timescales. There are numerous overlapping time-dependent effects, mostly related to phase changes of water, including adsorption (Zent et al., 1993; Chevrier et al., 2008; Rivera-Valentín & Chevrier, 2015; Savijärvi et al., 2020), solid-state hydration (Vaniman et al., 2004; Gough et al., 2020), deliquescence (Zorzano et al., 2009; Gough et al., 2011; 2014; Nuding et al.; 2014), and dissolution (Sears and Chittenden, 2005). Moreover, the kinetics of these processes are strongly affected by temperature variations, the availability of water vapor, and pressure. In this dissertation we focus on deliquescence, both in a Mars simulation chamber and at a field site considered a Mars analog. This dissertation also looks at what salt combination(s) exhibit the lowest eutectic temperature, which in turn increases the longevity of liquid water on the surface or sub-surface of Mars.

1.3.2 Objectives and Tasks

The research projects described in this dissertation can impact future modeling, both climate and habitability, and aide in preparing for exploration of Mars. Along with helping advance the field to better understand deliquescence on Mars, this work will also address questions from the previous Vision and Voyages for Planetary Science in the Decade 2013-2022, and the newly released Vision and Voyages for Planetary Science in the Decade 2023-2032. Some of these questions, but not all, are “Beyond Earth, are there contemporary habitats elsewhere in the solar system with necessary conditions, organic matter, water, energy, and nutrients to sustain life, and do organisms live there now?”, “What can terrestrial planetary bodies reveal about habitable environments?”, and “What controls the amount of available water on a body over time?”.

This dissertation focuses on better understanding the salts found on Mars, especially calcium perchlorate, since it has the lowest eutectic temperature and is highly Mars-relevant. Salt

plays a vital role in the stability of liquid water on Mars. That liquid water, in turn, plays a large role in habitability and determining if Mars could sustain life in the brine solution. By studying what conditions are ideal for deliquescence to occur and the deliquescence/efflorescence cycle this work is aiding in answering these key questions.

In order to investigate the goals and science objectives of this dissertation, the following objectives and corresponding tasks are established:

1. What is the affect of the Mars-relevant regolith analog JSC Mars-1 on the deliquescence of calcium perchlorate at the macroscale under low relative humidity conditions?
 - a. Conduct deliquescence experiments in the Mars simulation chamber with 1- 5.5 wt% calcium perchlorate mixed with JSC Mars-1 at 1.5°C to 5°C
 - b. Understand the impact of an adsorbing regolith on the deliquescence of calcium perchlorate under Mars-like conditions
 - c. Investigate processes under low relative humidity conditions
 - d. Resolve whether deliquescence can occur under reasonable timescales
 - e. Constrain whether regolith darkening occurs at low relative humidity conditions
2. How does higher relative humidity in the Mars simulation chamber affect the deliquescence process, and can regolith darkening occur?
 - a. Expand on the experiments from Chapter 2 with higher humidities at temperatures between -8°C and 5°C
 - b. Constrain whether regolith darkening can occur at higher relative humidity
 - c. Better understand humidity in the Mars simulation chamber

3. What does the deliquescence/efflorescence cycle look like in varying salts in the Atacama Desert?
 - a. Determine which salts can deliquesce and effloresce in the Atacama Desert, one of the driest locations on Earth.
 - b. Explore how adding soil to the salt mixture affects the deliquescence/efflorescence cycle
 - c. Determine how Mars relevant the Atacama Desert is for deliquescence/efflorescence cycling
4. What ternary salt mixture with chloride, chlorate, and perchlorate with either calcium or magnesium allows the lowest eutonic relative humidity, and therefore permitting conditions to have liquid water stable the longest at Mars-relevant temperatures?
 - a. Model chloride, chlorate, and perchlorate with Ca and Mg, varying the concentrations in 10 wt% increments for six temperatures (273-223 K)
 - b. Determine which salt combination allows the lowest eutonic relative humidity at various temperatures.

1.4 Dissertation Outline

This dissertation consists of an Introduction (Chapter 1), four research chapters (Chapters 2-5), and a Conclusion (Chapter 6). The research chapters 2 and 3 will discuss the experiments conducted in the Ares Mars Simulation Chamber in the Keck Lab at the University of Arkansas. Chapter 2 has been accepted to the Planetary Science Journal (PSJ). Chapter 4 discusses the field work experiments conducted in the Atacama Desert to better understand deliquescence/efflorescence cycling of varying salts. This chapter is being prepared for

submission to the journal *Astrobiology*. Chapter 5 consists of the modeling of ternary salt mixtures to determine the best salt to allow liquid on Mars based on eutectic temperatures. The conclusion chapter (Chapter 6) will summarize all the work conducted for this dissertation and future work.

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Chapter 2

Experimental Constraints on Deliquescence of Calcium Perchlorate Mixed with a Mars Regolith Analog

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2.1 Abstract

Hygroscopic salts within the martian regolith may actively participate in the near-surface water cycle by exchanging water vapor via solid state salt hydration and deliquescence. To elucidate this process, experimental work has constrained the phase diagram of Mars-relevant salts and the stability of the resultant brines. However, salt interactions with a Mars-like regolith, which itself can exchange water vapor with the atmosphere via adsorption, has not yet been well explored. Here to better understand water exchange with a salty Mars-like regolith and, particularly, the potential to form brines, we conducted a series of experiments using JSC Mars-1 regolith simulant mixed with calcium perchlorate in a Mars simulation chamber at a temperature $< 5^{\circ}\text{C}$ and a relative humidity $< 20\%$. During the experiments, we measured the sample mass, as well as the temperature and relative humidity of the sample and the chamber. We found that the water uptake of a salty Mars-like regolith is about twice as fast as that of a salt-free regolith. Furthermore, we found evidence to suggest that deliquescence occurred; however, not all the salt within the sample may have entered solution. The amount of water in solution was small and did

not lead to regolith darkening. Our results suggest that, under the tested experimental conditions, salt deliquescence and regolith adsorption can occur simultaneously.

2.2 Introduction

The most sought-after requirement for present-day martian habitability is the existence of liquid water. Recent work has shown that present-day conditions may allow for stable brines on its surface and shallow subsurface, though only for a small fraction of the year (Chevrier et al., 2020; Rivera-Valentín et al., 2020). Indeed, several in-situ and orbital observations have suggested the potential presence of liquid on the martian surface. The Phoenix lander, which was dedicated to the study of water in the polar regions, found evidence in support of transient liquids in the regolith through dielectric measurements (Stillman and Grimm, 2011) and the heterogenous distribution of salts in the regolith (Cull et al., 2014), as well as potential direct observations of brine droplets on the lander struts (Rennó et al., 2009). Meteorological observations at the Mars Science Laboratory (MSL) rover landing site in Gale Crater suggested that the surface conditions would permit the formation of perchlorate brines (Martin-Torres et al., 2015), though only in specific terrain units and for a short time (Rivera-Valentín et al., 2018). Observed active and seasonal flow features on crater walls, such as Recurring Slope Lineae (RSL), have furthered the idea of present-day liquid formation (McEwen et al., 2011; Chevrier and Rivera-Valentín, 2012; Levy, 2012; Grimm et al., 2014; Heinz et al., 2016); however, a purely or mostly dry flow process cannot be ruled out (Edwards and Piqueux, 2016; Dundas et al., 2017; Schmidt et al., 2017; Dundas, 2020; Gough et al., 2020).

The formation of brines requires salts, a source of water, which can be subsurface ice or atmospheric water vapor, and appropriate temperatures to reach the eutectic. The Mars Odyssey Gamma Ray Spectrometer revealed the presence of abundant subsurface hydrogen interpreted as

ice (Boynton et al., 2002; Feldman et al., 2004), which was confirmed *in situ* by the NASA Phoenix lander (Mellon et al., 2009). Additionally, the ExoMars Trace Gas Orbiter identified high water equivalent hydrogen content in several regions on Mars, including within Valles Marineris (Mitrofanov et al., 2022). Furthermore, widespread, shallow water ice, including surface exposed ice within craters in the mid-latitudes has been documented (Dundas et al., 2018; Piqueux et al., 2019; Morgan et al., 2021). Melting of ice has therefore been considered a possible mechanism for brine formation on Mars (e.g., Chevrier and Rivera-Valentin, 2012; Fischer et al., 2014); however, this process would be limited to locations with shallow subsurface ice and constrained to quickly freezing in cold polar temperatures and rapid evaporation and boiling at mid-latitude temperatures (e.g., Chevrier and Altheide, 2008; Chevrier et al., 2019; 2020). Experimental work replicating near-surface diurnal conditions at the Phoenix landing site, though, have found that stable liquid formation can occur rapidly through melting (Fischer et al., 2014; 2016).

A potential formation pathway for brines on Mars is deliquescence (Zorzano et al., 2009; Gough et al., 2011; 2014; Nuding et al.; 2014), the transition from a solid salt crystal into an aqueous solution when exposed to a humid atmosphere. Some experiments, though, suggest that under the Mars-relevant pairing of temperature and relative humidity, the kinetics of deliquescence may be too slow to form brines (Fischer et al., 2014). Furthermore, salts in the regolith would be competing in a hyperarid environment for water vapor against other processes, such as adsorption (Zent et al., 1993; Chevrier et al., 2008; Rivera-Valentín & Chevrier, 2015; Savijärvi et al., 2020), and solid-state salt hydration (Vaniman et al., 2004; Gough et al., 2020). These processes are dependent on water availability and temperature to different extents. As water vapor diffuses in a porous regolith, low energy collisions with grains lead to the adsorption of water molecules (Langmuir, 1932). Generally, water vapor adsorption is facilitated at low temperatures and high

humidity, while at high temperatures and low humidity adsorbed water molecules readily desorb back into the local atmosphere. Solid-state salt hydration occurs when water is incorporated into a salt's crystal structure. This process is facilitated at lower temperatures and higher humidity. On the reverse end, dehydration occurs at high temperature and low humidity. Deliquescence occurs when the ambient temperature is above the eutectic, and the relative humidity with respect to liquid (RH_l) is above a threshold termed the Deliquescence Relative Humidity (DRH). Although thermodynamically the solution effloresces once $RH_l < DRH$, experiments have shown that a metastable solution persists until a much lower Efflorescence Relative Humidity (ERH) is reached (e.g., Nuding et al., 2014). Such dynamics of water vapor through atmosphere-regolith interactions, particularly at short timescales, remains largely unexplored.

Experimental work so far has focused on defining the phase space for Mars-relevant brines, e.g., their stability and formation with respect to freezing, evaporation, deliquescence, efflorescence, and boiling. The interaction of processes occurring in the regolith and their effects on deliquescence, though, have not been well explored. Primm et al. (2018) found that the deliquescence of magnesium perchlorate was not hindered at the grain-scale by a Mars-relevant regolith analog (montmorillite and Mojave Mars Simulant) for temperatures $> -53^\circ\text{C}$. Nikolakakos and Whiteway (2018) found that at the small, grain scale deliquescence can occur when magnesium perchlorate is mixed with quartz sand or chabazite and results in grain darkening at moderate humidities (i.e., relative humidity with respect to liquid on the order of 50%).

In our work, we seek to investigate the effect of the Mars-relevant regolith analog JSC Mars-1 on the deliquescence of calcium perchlorate at the macroscale under low relative humidity conditions. To determine these processes, real-time deliquescence experiments in a shallow regolith column were conducted in the Mars Ares simulation chamber, at the W. M. Keck

Laboratory for Planetary Simulation at the University of Arkansas' Center for Space and Planetary Sciences. The chamber can simulate martian temperature, pressure, and atmospheric composition. A series of experiments were conducted, which focused on determining water vapor transfer and potential deliquescence by mass, temperature, and relative humidity between the atmosphere and a layer of JSC Mars-1 regolith simulant with varying concentrations (0-5.5 wt.%) of calcium perchlorate $\text{Ca}(\text{ClO}_4)_2$. The experiments were conducted to understand the range of conditions over which deliquescence may readily lead to brine formation in a realistic regolith environment at a macroscale level.

2.3 Methods

2.3.1 Chamber

Experiments were conducted in the Ares simulation chamber (Fig. 1), which is approximately 1 m tall and 0.6 m wide and made of stainless steel. The lower portion is surrounded by coils for cooling and then insulated with ceramic. The lid is raised and lowered by a motor and bolted down to the base for a vacuum seal during experiments. The chamber has an array of three Vaisala hygrometers (identical to those onboard the MSL Curiosity Rover) wired to a Fuji Electric digital output with an accuracy of 0.3% for measurements of relative humidity with respect to liquid, four Omega thermocouples accurate within 1.1°C, a Ohaus Ranger 7000 laboratory balance with 0.01 g accuracy, and an LED light. All the feed-through ports for the equipment were replaced with stainless steel flanges for low-pressure experiments. This eliminated air leaks present at various access points around the chamber, allowing us to reach 3 mbar. The chamber also has an input and output connected to a Sterling chiller, which pumps an ethylene glycol mixture through the cooling coils surrounding the chamber (allowing a minimum temperature of -13°C). Lastly, there are two feed-through ports, which accommodate a vacuum

pump, to achieve a desired pressure range, and gas exchange for continuously exchanging the atmosphere with CO₂.

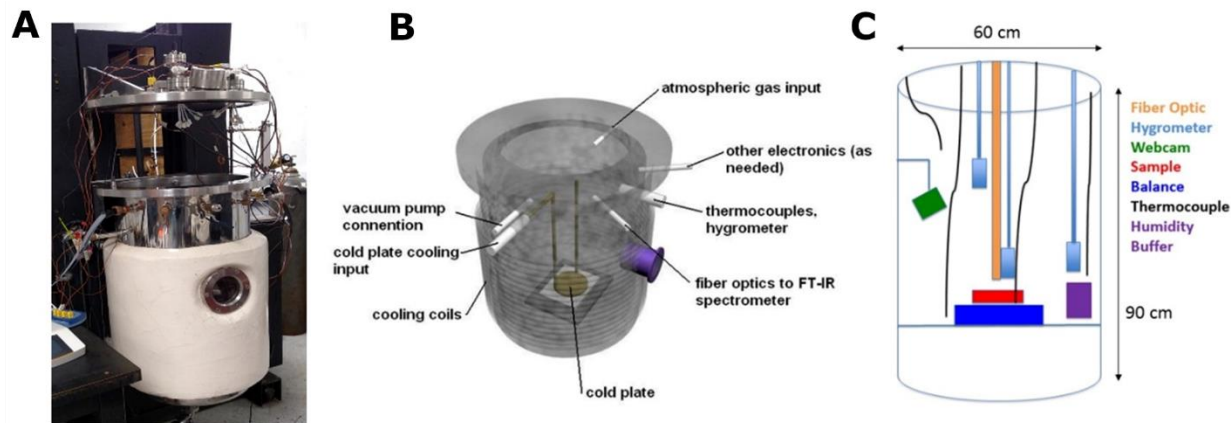


Figure 1: Picture and schematic of the Ares Mars simulation chamber and the components that were used to conduct the experiments. A: Picture of the Ares chamber with the lid open. B: Schematic of the chamber and the location of the ports. Also illustrates the location of the chiller coils. C: Schematic of the inside of the chamber. The diagram shows the location of the hygrometers, thermocouples, sample, scale, and humidity buffer.

2.3.2 Experimental Protocol

A suite of eleven experiments were conducted (Table 1) in the Ares Mars simulation chamber. Six of the experiments were controls: two with an empty dish, two with 2 mm of JSC Mars-1, and two with a petri dish filled with 64.5 grams of pure calcium perchlorate (CaClO₄)₂. The controls were conducted at a temperature of 1.5°C and 4°C. Each of the controls were run in duplicates. We conducted three deliquescence experiments at temperatures of approximately 4°C. An additional two deliquescence experiments were run for longer timeframes than the previous experiments, one at 24 hours and the other at 48 hours. All deliquescence experiments were conducted with 2 cm of JSC Mars-1 and varying abundances of calcium perchlorate (1-5.5 wt%, Table 1). We considered the start of the experiment the point when the chamber reached 600 Pa.

Experiment #	Wt% of Calcium Perchlorate	Temperature (°C)	Time (minutes)	Relative Humidity at Sample (%)	Sample Thickness	Deliquescence Expected During Experiment?	Deliquescence Visibly Seen/ Changes in Salt Properties	Mass Change (g)	Water Vapor Pressure Gradient
1	0	1.5	420	7.4	0 cm	N/A	N/A, N/A	-0.03 ± 0.04	N/A
2	0	3.5	640	18.5	0 cm	N/A	N/A, N/A	-0.05 ± 0.06	N/A
3	0	1.5	407	7.1	2 cm	N/A	N/A, N/A	-0.45 ± 0.04	N/A
4	0	3.5	418	19.7	2 mm	N/A	N/A, N/A	0.17 ± 0.04	N/A
5	all salt	1.5	428	7.4	2 mm	No	No, No	-0.12 ± 0.04	Positive
6	all salt	3.5	332	19.2	2 mm	Yes	Yes, Yes	-0.03 ± 0.03	Negative
7	1.0	4.0	306	10.0	2 cm	No	No, No	0.33 ± 0.03	Positive
8	0.97	4.0	274	20.4	2 cm	Yes	No, No	0.11 ± 0.03	Negative
9	5.5	4.0	384	21.5	2 cm	Yes	After Exp., Yes	0.23 ± 0.04	Negative
10	5.2	4.5	1404	21.8	2 cm	Yes	After Exp., Yes	1.08 ± 0.14	Negative
11	5.3	5.0	2926	20.5	2 cm	Yes	After Exp., Yes	3.55 ± 0.29	Negative

Table 1: Detailed list of all experiments, including the controls. Lists the experiment number, weight percent of calcium perchlorate, temperature of the sample, experimental runtime, the relative humidity at the sample, and the thickness of the sample. The table also indicates if deliquescence was expected to occur during the experiment, if there was evidence of deliquescence visibly during or after the experiment via regolith darkening, changes to the salt properties, mass change with errors, and positive or negative water vapor gradient.

2.3.3 Protocol with Chiller

The chamber is initially chilled for at least 24 hours before an experiment starts. A lithium chloride humidity buffer was placed in the chamber, near the sample, and chilled with the chamber (Fig. 2). The buffer creates stable humidity in the chamber maintaining an average humidity of $11.2 \pm 0.5\%$ at 0°C in the atmosphere. Samples were prepared while the chamber was cooling. The regolith was baked for 24 hours above 100°C in a glass petri dish to eliminate as much water as possible from the sample. The regolith was quickly removed from the oven and placed in a desiccator, which was pulled to vacuum for 12 hours. At the 12-hour mark, the desiccator was closed and removed from the vacuum pump. The closed desiccator was moved to a freezer to cool to -25°C , so the sample can be at

a similar temperature as the chamber. The calcium perchlorate was prepared in a similar way. The salt is placed in a desiccator and pulled to vacuum for 24 hours. The salt was not sieved or crushed. In order to approximate Mars-like conditions, the experiment was conducted agnostic of grain size since, as was seen by the Phoenix lander, salts in the Martian regolith vary in grain size. We note that the salt ranged in grain size from ~1 mm to ~20 mm based on measurements from a grain size chart. The desiccator was then closed, removed from the vacuum pump, and then moved to the freezer.

Once all samples were prepared and in the freezer cooling, and the chamber was at the appropriate conditions, the chamber was pulled to vacuum and then filled with CO₂. Once the pressure was back to 1 bar, the chamber lid was unbolted, and the lid raised. The regolith was removed from the desiccator and weighed. The salt was also weighed to the correct wt% and then evenly mixed into the regolith. The sample was then placed in the chamber onto a scale, which measures mass with an accuracy of 0.01 g throughout the experiment. Additionally, thermocouples and hygrometers were placed in the sample before the lid was quickly closed. Although the sample was briefly exposed to the local atmosphere, exposure time was less than 120 seconds, and the chamber is filled with CO₂ to help prevent further water contamination. Given the conditions in the desiccator, we expect the salt's hydration phase to be anhydrous. However, as soon as the sample was removed, the salt was exposed to the atmosphere. During this time, and given previous experimental results on the hydration state changes of calcium perchlorate (Gough et al., 2019), we expect the hydration state to likely be the tetrahydrate Ca(ClO₄)₂ • 4H₂O. The chamber lid was lowered and bolted down. The chamber was then pulled to vacuum, and CO₂ gas was fed into the chamber, maintaining a pressure of 6 mbar. These experiments run completely autonomously without any interference, from 6 to 48 hours.

The array of thermocouples and hygrometers measure temperature and relative humidity throughout the chamber: one thermocouple and one hygrometer each at the humidity buffer, the sample, and in the upper atmosphere. There is an additional thermocouple placed at the bottom of the chamber to measure the temperature of the lower atmosphere. Temperature and humidity readings were recorded every minute. Mass measurements were recorded every two minutes. Optical pictures were also taken before and after the experiment. The pictures helped with visual inspection of the sample to identify darkening induced by regolith wetting, such as in the experiments by Heinz et al. (2016).

2.4 Results

2.4.1 Control Experiments

Two sets of controls were conducted: one with LiCl buffer, which controlled the RH in the chamber to around 20% near the sample, and one without, which reduced the RH in the chamber to <7% near the sample. Each control set consisted of an experiment with just an empty petri dish, one with just JSC Mars-1, and one with pure calcium perchlorate. Experiments 1, 3, 5 were controls with no humidity buffer; Experiments 2, 4, 6 were controls with the LiCl buffer (Table 1).

In the no humidity buffer control experiments we were able to determine the scale had a slight decrease of mass over time (0.0001 g/min). In both the empty petri dish (Experiment 1) and pure calcium perchlorate (Experiment 5) experiments the read-out mass consistently decreased 0.0001 g/min. For the control with JSC Mars-1 (Experiment 3), the mass decreased by 0.001 g/min. The faster mass loss of the regolith only control may be due to desorption of any remaining adsorbed water on the regolith grains. Given the measured mass loss over time of the

scale, we consider the uncertainty in measured mass change as the sum in quadrature of the scale's accuracy (0.01 g) and the expected mass change of the scale over time (i.e., 0.0001 g/min * the runtime of the experiment).

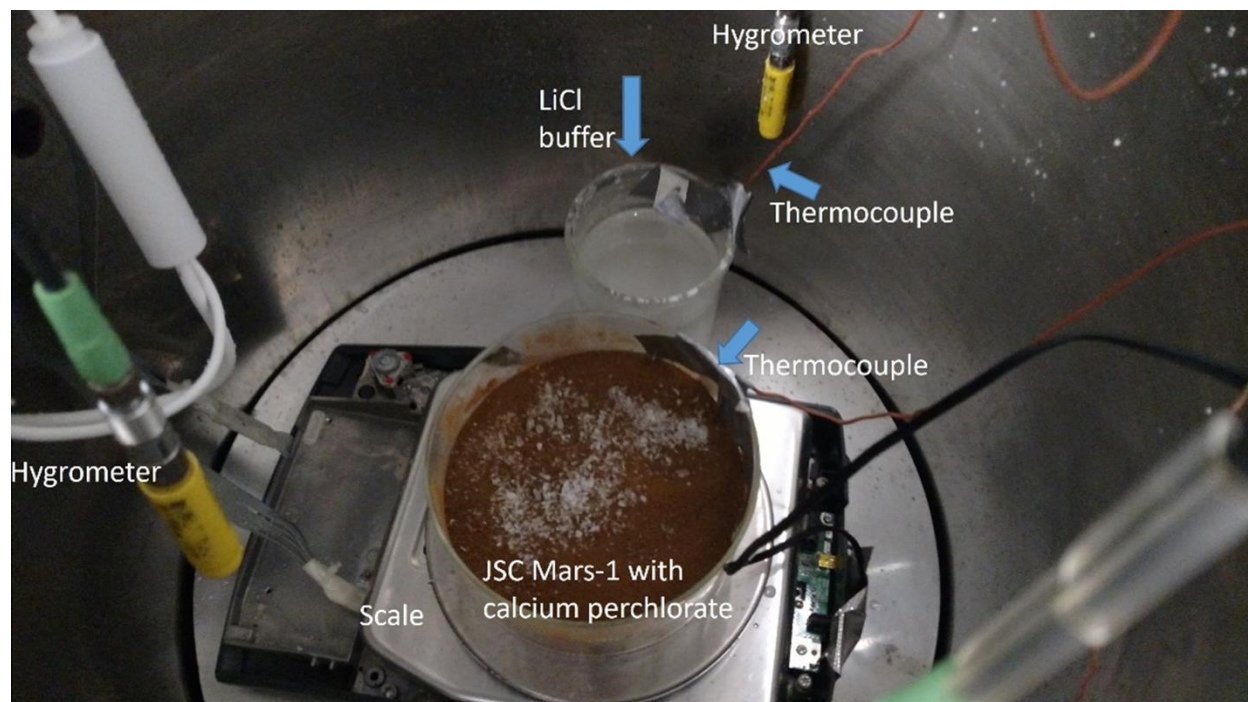


Figure 2: Picture showing the sample within the Ares Mars simulation chamber. The sample is in the middle of the chamber, sitting on top of the scale. The sample petri dish has the thermocouple secured in place directly above the sample's surface. The LiCl humidity buffer seen directly next to the sample, also had a thermocouple secured directly above the saturated solution. The thermocouples that measured the upper and lower atmosphere of the chamber are not visible in this image. The three hygrometers are visible in this picture. As the lid closes on the chamber, the hygrometers move into place, with one directly above the sample, one directly above the humidity buffer, and one high in the chamber to measure the upper atmosphere humidity.

The regolith only control experiment with the humidity buffer (Experiment 4) had a mass increase and stable humidity. The control at 4°C with the LiCl buffer had a relative humidity of 19.70% (i.e., 158.6 Pa of atmospheric water vapor). The mass increased by 0.17 g ± 0.04 g. The mass change stabilized towards the end of the experiment (418 minutes). The regolith only control without a humidity buffer (Experiment 3) lost mass the entire experiment. The control at

1.5°C without the buffer had a relative humidity of 7.1% (i.e., 158.6 Pa of atmospheric water vapor). The mass decreased by $0.45 \text{ g} \pm 0.04 \text{ g}$. Both control sets were used to better interpret the deliquescence experiments.

For the experiment with the petri dish filled with 64.5 grams of pure calcium perchlorate with the LiCl buffer (Experiment 6), the salt crystals had noticeable differences at the end of the experiment compared to when the experiment started. The salt crystals were transparent and appeared semi-dissolved (Figure 3 A-B). We infer this as evidence in support of deliquescence occurring in the experiment at a temperature of 4°C and relative humidity with respect to liquid of 19% (i.e., 153 Pa of atmospheric water vapor). This implies that pure calcium perchlorate is capable of deliquescing in the chamber under the temperature and humidity conditions of our experiments. Indeed, these conditions are within those known to have led to deliquescence in prior experiments (e.g., Nuding et al., 2014). At the temperature of this experiment, the DRH of calcium perchlorate is predicted to be 10%. The control experiment without the buffer (Experiment 5) did not have any noticeable differences between the beginning and end of the experiment (Figure C-D), as expected.

2.4.2 Deliquescence Experiments

We conducted a total of five experiments with calcium perchlorate mixed with regolith to test for deliquescence by mass change and visual inspection, specifically by grain darkening due to wetting. These experiments were conducted at a temperature range of 3.5°C to 5°C and humidity range of 10 to 21.7%. At these temperatures, the predicted DRH would be between 8% and 10%. In Figure 4, we summarize the average temperature and relative humidity with respect to liquid throughout each experiment on the phase diagram of calcium perchlorate. The phase diagram shown is from Rivera-Valentín et al. (2018; 2020), which incorporates both the

experimental results and modeling work of Nuding et al. (2014). In particular, the theoretical DRH line from Nuding et al. (2014) is adjusted to have the experimentally verified eutectic temperature of calcium perchlorate (~198 K). The ERH line shown is a fit to the experimental ERH data from Nuding et al. (2014). As can be seen from the diagram, four out of the five experiments reached and maintained conditions that would have permitted deliquescence, and one experiment was close to the expected needed conditions to deliquesce.

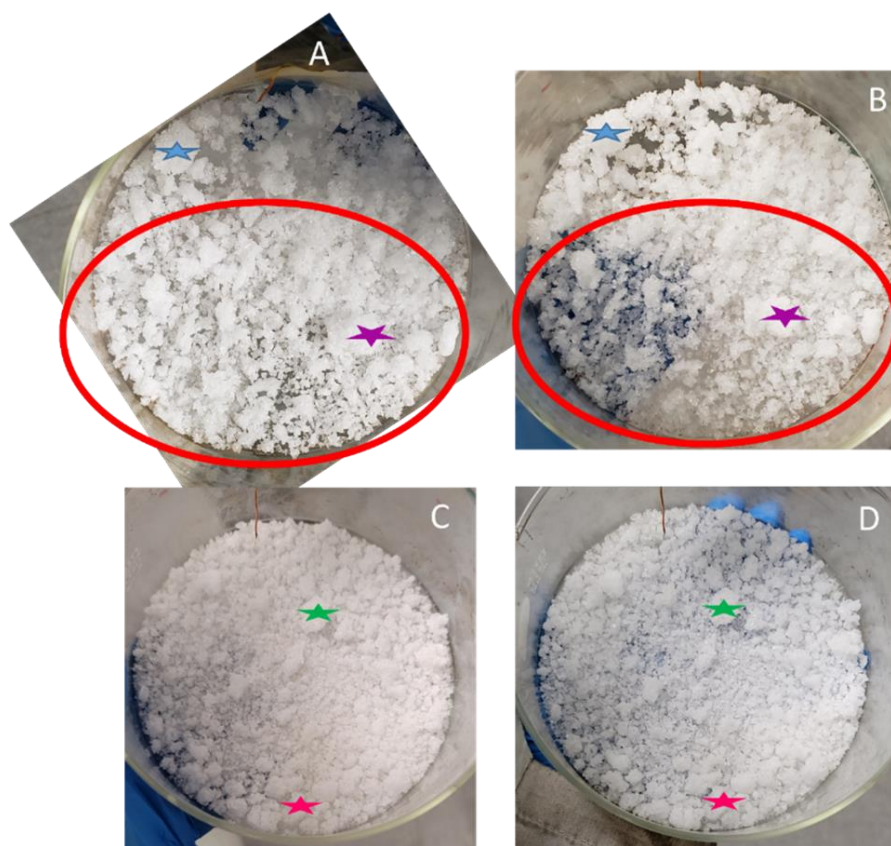


Figure 3: A: Picture of calcium perchlorate control with LiCl buffer (Experiment 6) before the experiment. B: Picture of calcium perchlorate with LiCl buffer (Experiment 6) after the experiment. The blue and purple stars are references to the same salt crystals. The red circle is the main area of interest, where deliquescence can be seen in picture B. This is evident from the change in color of the salt, with the salt becoming more transparent. The salt crystals also reduced in size. C: Picture of calcium perchlorate control with no buffer (Experiment 5) before the experiment. D: Picture of calcium perchlorate with no buffer (Experiment 5) after the experiment. The green and pink stars are references to the same salt crystals. There was no visible evidence that deliquescence occurred during this experiment. The salt crystals were the same color and size in the after picture as they were in the before picture.

The experiment that was close to DRH conditions (Experiment 7), which had 1wt% salt, increased in mass by $0.33 \text{ g} \pm 0.03 \text{ g}$. This mass increase is comparable to the mass change of the regolith only control experiment. The chamber temperature was 4°C and the sample relative humidity increased from 6% up to 10% after 100 minutes, then held constantly at 10% throughout the experiment. At the same time, the water vapor pressure just above the sample increased from 41 Pa to 76 Pa, then steadily increased to 86 Pa (Fig. 5). On the other hand, the chamber water vapor pressure steadily increased throughout the experiment from 124 Pa to 158 Pa. In this experiment, the water vapor pressure gradient, from the sample to the atmosphere, was positive (i.e., smaller at the sample than in the atmosphere) and nonzero throughout the experiment and thus the water vapor flux is expected to be into the sample.

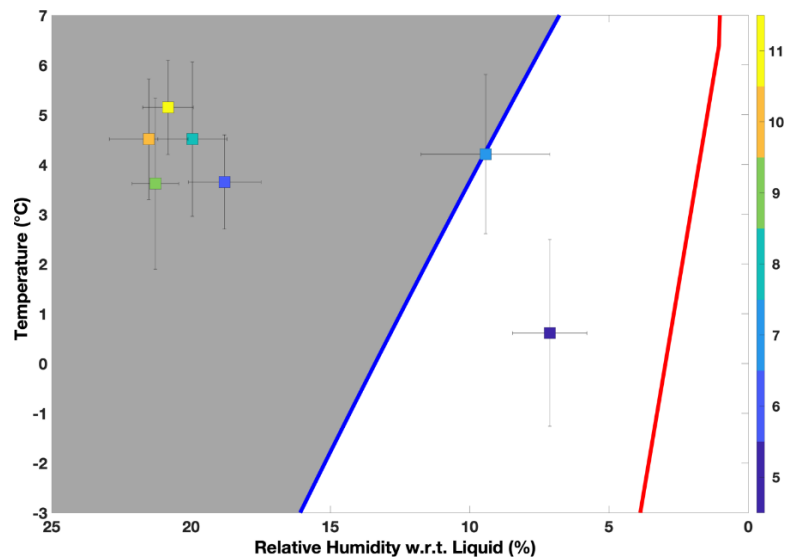


Figure 4: Deliquescence phase diagram of calcium perchlorate with the average (square symbols) and standard deviation (black horizontal and vertical bars) of the temperature and relative humidity of our experiments, color coded following the color bar on the right side. The blue line is the deliquescence relative humidity (DRH) and the red line is the efflorescence relative humidity (ERH). The gray space indicates the conditions that would permit deliquescence to occur. Five of our experiments were in conditions that should have allowed deliquescence to occur. Four of those were $\text{Ca}(\text{ClO}_4)_2$ mixed with JSC Mars-1 experiments (Experiments 8-11), and one was the $\text{Ca}(\text{ClO}_4)_2$ only with the humidity buffer (Experiment 6). One experiment did not have conditions that would permit deliquescence to occur (Experiment 5, the $\text{Ca}(\text{ClO}_4)_2$ only without the humidity buffer), and one was on the DRH line (Experiment 7), but was considered to not have conditions indicative of deliquescence.

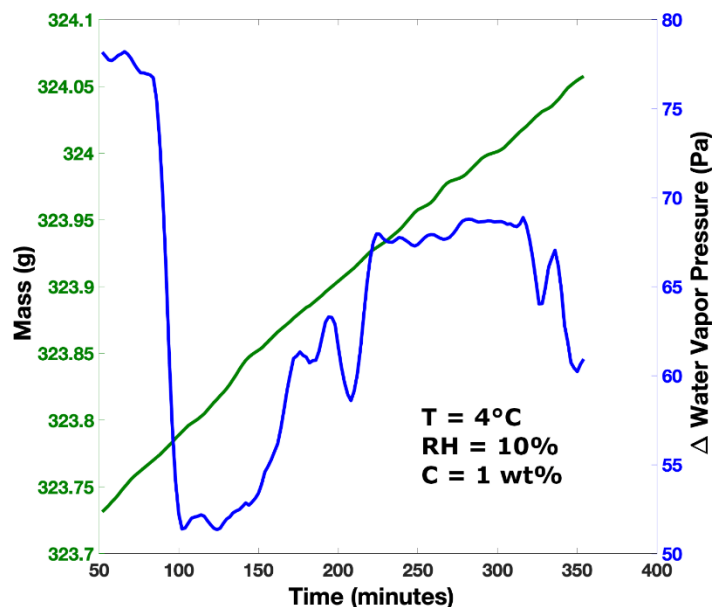


Figure 5: Mass vs time (left and green) and water vapor pressure gradient (right, and blue) for the experiment that was under conditions that would not permit deliquescence (Experiment 7). The experiment had a positive water vapor pressure gradient, meaning there was more water vapor in the atmosphere than in the sample. This gradient would result in water vapor diffusion into the sample and should result in mass increase over time.

Two of the four experiments where the chamber conditions should have led to deliquescence (Experiments 8 and 9) were conducted for at most 7.5 hours. The experiment with 1wt% salt and at a temperature of 4°C (Experiment 8) started at a relative humidity of 18% before increasing to 20.5% and experienced a mass increase of $0.11 \text{ g} \pm 0.03 \text{ g}$. The water vapor pressure above the sample increased from 127 Pa to 180 Pa, while the water vapor in the atmosphere, increased from 129 Pa to 140 Pa before decreasing back down to 133 Pa. Experiment 9, which had 5.5 wt% calcium perchlorate mixed with regolith, was at 4°C and had a mass increase of $0.23 \text{ g} \pm 0.04 \text{ g}$ (Fig. 6, A). The sample’s humidity started at 19.5% and increased to 21.6% (Fig. 6, B). The water vapor pressure above the sample increased from 125 Pa to 180 Pa, while the water vapor in the atmosphere, increased from 131 Pa to 155 Pa. In both experiments there was a negative water vapor pressure gradient between the sample and atmosphere (i.e., higher at the sample than the atmosphere), indicating the flux of water vapor

would be from the sample to the atmosphere; however, both experiments experienced a mass increase. Additionally, we note that in both experiments the sample started at a temperature between 0.9°C and 2.2°C and the temperature increased until it reached equilibrium with the upper atmosphere (~4°C) (Fig. 6, C).

Although deliquescence was expected during these experiments, and they both indeed experienced mass gain, there was no visible evidence of regolith darkening at the end of the experiments. However, at the end of Experiment 9 the exposed salts at the surface of the petri dish appeared more translucent, and some grains had visibly become smaller. After it was removed from the chamber, there was visible regolith darkening in Experiment 9 within 5 minutes of exposure to ambient conditions (~65 % RH, 23.9°C) (Figure 7 A-C). Additionally, we note that after 30 minutes of being out of the chamber, approximately half of the surface calcium perchlorate had deliquesced while none of the salt below the surface (a few mm) showed any visible wetness on the sides of the petri dish. In contrast, Experiments 7 and 8 did not show regolith darkening when removed from the chamber and exposed to terrestrial conditions for at least the hour that they were monitored.

Fischer et al. (2014) found that bulk deliquescence may not be rapid enough to occur on the timescales of a martian sol under the low temperature and relative humidity conditions experienced at the Phoenix landing site. Given that there was no visible evidence for grain wetting in our short experiments, we also conducted two experiments for 24 and 50 hours (Experiments 10-11; Table 1). Both experiments were under conditions that should have permitted deliquescence of calcium perchlorate. The experiment with 5.3wt% salt and at a temperature of 4°C (Experiment 10), started at a relative humidity of 17% and increased to 22% before slowly decreasing and leveling out at 21%. Experiment 10 experienced a mass increase of

1.08 g \pm 0.14 g. The water vapor pressure above the sample increased from 111 Pa to 182 Pa, while the water vapor in the atmosphere, increased from 134 Pa to 145 Pa, with multiple oscillations, before decreasing back down to 132 Pa. Experiment 11, which had 5.2 wt% calcium perchlorate mixed with regolith, was conducted at 5°C and had a mass increase of 3.55 g \pm 0.29 g (Fig. 8, A). The sample's humidity started at 18.5% and increased to 21.5% before slowly decreasing and leveling out at 20.5% (Fig. 8, B). The water vapor pressure above the sample increased from 126 Pa to 185 Pa, while the water vapor in the atmosphere, increased from 138 Pa to 145 Pa, with multiple oscillations, before decreasing back down to 136 Pa. There was a negative water vapor pressure gradient between the sample and atmosphere in both experiments, which would indicate the expected flux of water vapor would be from the sample into the atmosphere. In both experiments the sample started at a temperature between 1.2°C and 1.6°C and the temperature increased until it reached equilibrium with the upper atmosphere (\sim 5°C) (Fig. 8, C). Generally, the only difference between these two experiments was the 0.1wt% of salt.

Although there was no visible evidence at the surface of the sample for deliquescence via regolith darkening at the end of each experiment, there were indications that liquid formation had occurred within the sample. The salts on the surface of the petri dish in both experiments were different before and after. At the end of the experiments, some of the salts were noticeably more transparent and some of the grains were also smaller. There were also some dark regolith grains on top of some of the salt grains. Experiment 10 had some liquid droplets on the side of the sample dish, as well as some wetting within the sample that was visibly pressed up against the side of the glass (Fig. 9, A-B). It is interesting to note that there was no regolith darkening on the surface of the sample, though. When the regolith was dumped out of the sample petri dish

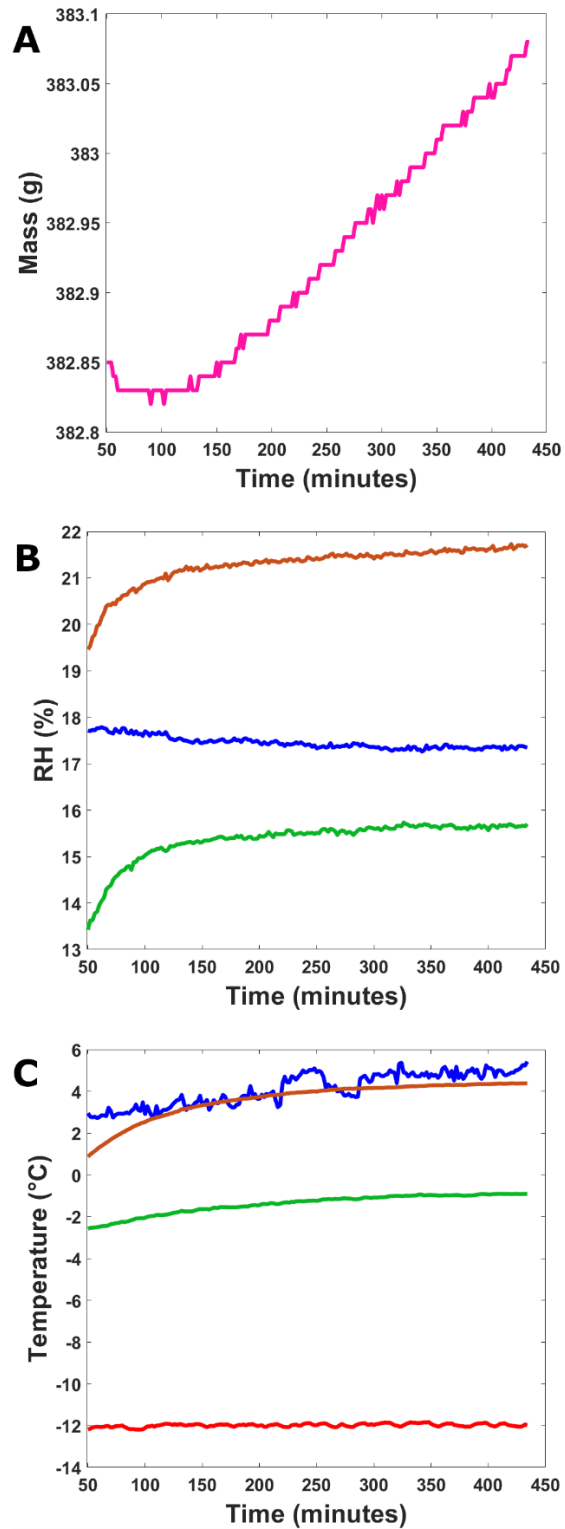


Figure 6: Measured (A) mass, (B) relative humidity with respect to liquid, and (C) temperature change over time for Experiment 9. This experiment was run for 7.5 hrs at 4°C, with a sample of 2 cm of JSC Mars-1 mixed with 5.5 wt% calcium perchlorate. For B and C, blue represents the upper atmosphere, red the lower atmosphere, green the humidity buffer, and orange the sample. The sample had the highest relative humidity in the chamber. However, all three locations followed the same trend with humidity. For most of the experiment the sample and upper atmosphere were at similar temperatures. The buffer was cooler, and the lower atmosphere had the lowest temperature remaining at almost a constant -12°C.

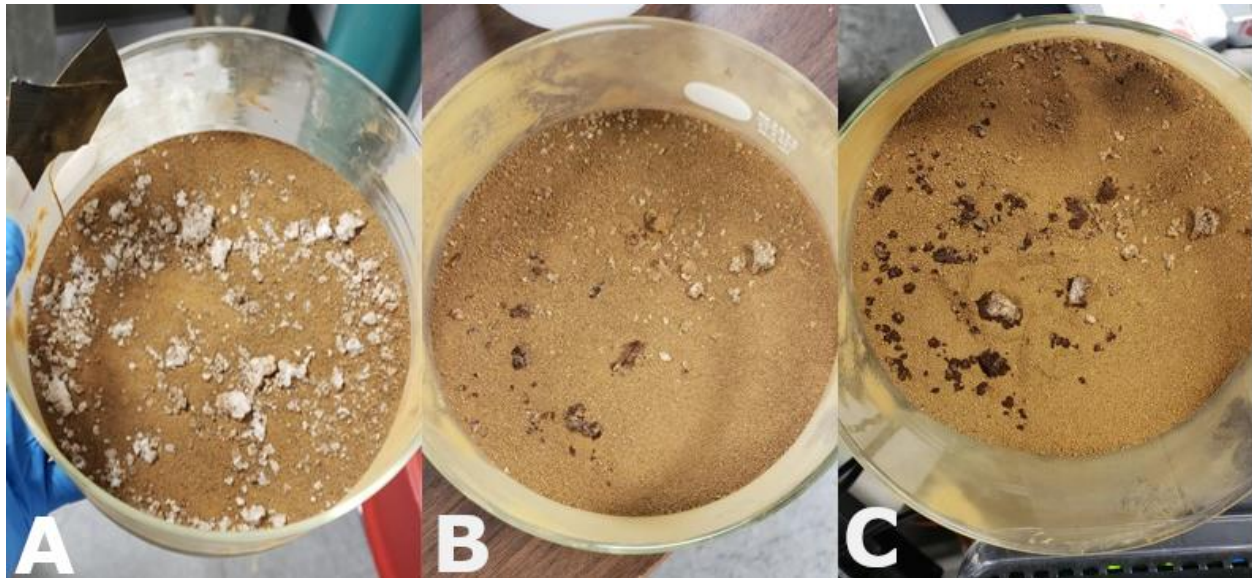


Figure 7: Evidence of deliquescence after Experiment 9 was removed from the chamber and exposed to ambient conditions. A: Sample directly after the experiment ended and being removed from the Mars simulation chamber. B: After 5 minutes regolith darkening started to occur, as seen by the darker color around some salt crystals on the left bottom quarter of the petri dish. Of note, regolith darkening around the salt was not apparently associated with crystal size. It occurred for both large and small exposed salt crystals. C: ~80% of the surface salt had deliquesced and had regolith darkening around the salt crystal after 30 minutes. Of note, there was an apparent preference for the location of deliquescence. Salts with associated regolith darkening are primarily located in the lower left hand of the petri dish. We did not observe an association between the preference in the petri dish and location / orientation in the chamber (e.g., proximity to the buffer).

There was some wet regolith stuck to the bottom of the glass (Fig. 9, C). Additionally, the sample was observed under room temperature conditions (~65 % RH, 23.9°C) and showed surface wetting after 17 minutes of being removed from the chamber (Fig. 9, D). After 27 minutes, nearly half of the surface salt had visible wetting around the calcium perchlorate (Fig. 9, E). On the other hand, Experiment 11, which was the longest run experiment and had 0.1wt% less salt, showed no evidence of liquid formation on or within the sample via regolith darkening. After the sample was removed from the chamber, it showed wetting at the surface after 6

minutes of exposure to room conditions (~65 % RH, 23.9°C) (Fig. 10, A-B). Nearly all the surface salt had deliquesced after 45 minutes (Fig. 10, C).

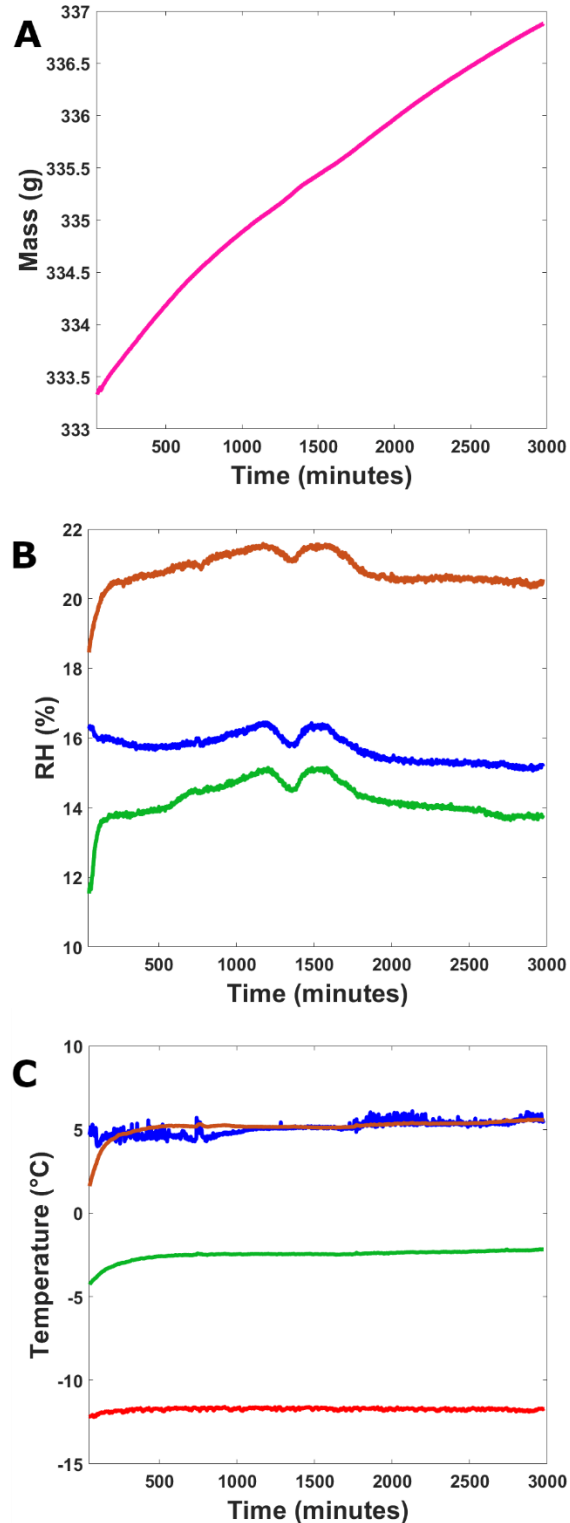


Figure 8: Measured (A) mass, (B) relative humidity with respect to liquid, and (C) temperature change over time for Experiment 11. This experiment was run for 50 hrs at 5°C, with a sample of 2 cm of JSC Mars-1 mixed with 5.3 wt% of calcium perchlorate. For B and C, blue represents the upper atmosphere, red the lower atmosphere, green the humidity buffer, and orange the sample. The sample had the highest relative humidity in the chamber. However, all three locations followed the same trend with humidity. For most of the experiment the sample and upper atmosphere were at similar temperatures. The buffer was cooler, and the lower atmosphere had the lowest temperature remaining at almost a constant -12°C.

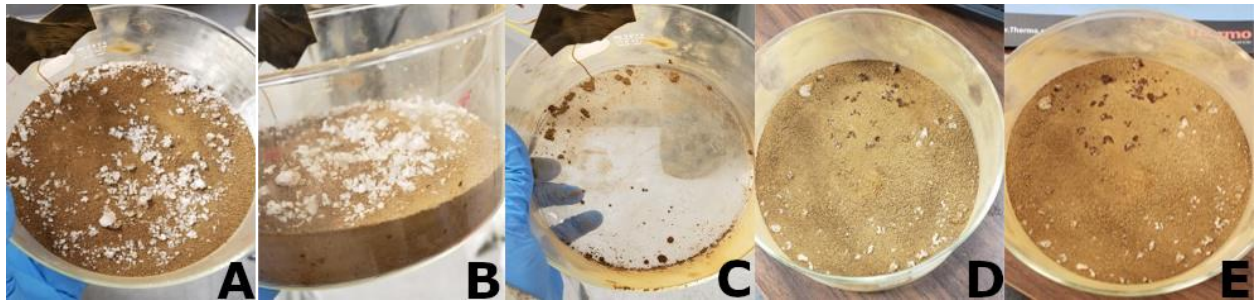


Figure 9: Evidence of deliquescence after Experiment 10 was removed from the chamber and exposed to ambient conditions. A: Sample directly after the experiment ended and was removed from the Mars simulation chamber. There were no signs of regolith darkening on the surface. B: Visible wetness on the edge of the petri dish and some regolith darkening buried in the regolith. This is the only location where regolith darkening was observed C: Wet regolith was observed after the sample was moved to a different petri dish. D: After 17 minutes regolith darkening started to occur, as seen by the darker color around certain salt crystals in the upper half of the petri dish. E: ~40% of the surface salt had deliquesced and had regolith darkening around the salt crystal after 27 minutes. As with Experiment 9, the salts did not seem to deliquesce based on the grain size of the salt.

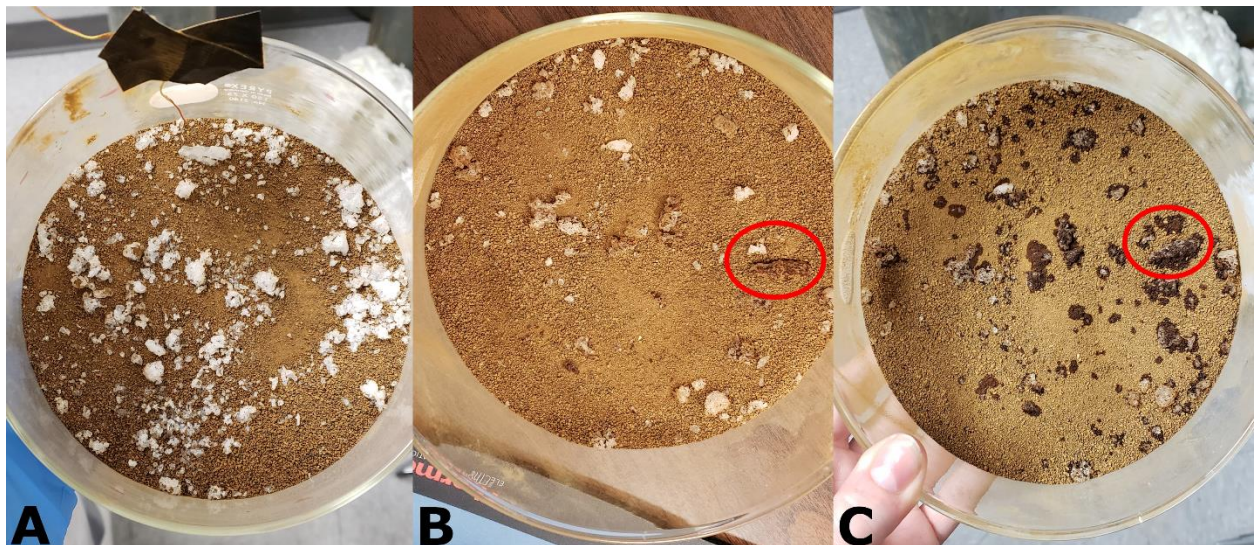


Figure 10: Evidence of deliquescence after Experiment 11 was removed from the chamber and exposed to ambient conditions. A: Sample directly after the experiment ended and after being removed from the Mars simulation chamber. B: Visible regolith darkening was observed within 6 minutes of being exposed to ambient condition. The large salt grain circled in red is wet and covered in a layer of wet regolith. There are a few smaller spots of darkening in the middle of the sample. C: ~90% of the salt on the surface had deliquesced and had regolith darkening around the salt crystal after 45 minutes. Almost all the salt that did not have regolith darkening surrounding it was near the edge of the petri dish in the upper left quadrant.

2.5 Discussion

Although the experiments that were under conditions that should have permitted the deliquescence of calcium perchlorate did not show evidence of grain wetting and darkening at the surface, they showed other lines of evidence that together suggested deliquescence may have occurred. Mass increase is a great way to help identify water uptake by the salt and regolith system; however, it does not distinguish deliquescence from other processes, such as adsorption or solid state salt hydration. Indeed, all five of the salty regolith experiments, including the experiment where no brine formation was expected, had a mass increase over the span of the experiments, ranging from 0.11 g to 3.54 g. The rate of water uptake, though, was different between experiments. The regolith-only experiment (Experiment 4) on average increased in mass at a rate of 22 ± 5 mg/hour. On the other hand, experiments with regolith and salt experienced on average a mass gain of 45 ± 18 mg/hour, 2.05 ± 0.94 times higher than the regolith-only experiment. Furthermore, experiments where the conditions would have facilitated deliquescence and had more than 5wt% salt experienced on average a mass gain of 52 ± 16 mg/hour. As such the inclusion of salt in the regolith resulted on average in a measurable increase in the rate of mass gain, which we interpret as water vapor uptake through processes such as adsorption, solid state salt hydration, and/or deliquescence.

The salt-only experiment in a humid chamber did not undergo an appreciable mass change (-0.03 ± 0.03 g over the experiment), yet we observed visible changes in the salt morphologies. The salt grains at the end of the experiment were transparent, less abundant, and semi-dissolved (Figure 3 A-B). Similar changes were also observed for the experiments where deliquescence was expected given the conditions within the chamber. The little to no measured mass change, though, may indicate that water uptake was limited and occurred below our

experimental uncertainty. Additionally, since a measurable mass change occurred with the regolith only and salty regolith experiments, then salt alone under low relative humidity conditions may not be an effective water vapor sink.

Together, the mass gain and salt morphology changes may suggest that deliquescence occurred during the experiments. However, the observed changes in salt morphology that did not lead to visible regolith darkening would suggest that liquid formation was limited. Under controlled conditions, brines should reach equilibrium with their local atmosphere such that the water activity (a_w) of the brine is associated with the local relative humidity with respect to liquid as $a_w = (RH_l / 100)$. This is because at this point the water vapor pressure just above the brine is equal to the local atmospheric water vapor (i.e., the water vapor gradient between the brine and atmosphere is zero and evaporation is not active). The length of our experiments should have resulted in brines in near equilibrium with the local atmosphere. During the experiments where deliquescence should have occurred, the humidity conditions at the sample ranged from $17\% \leq RH_l \leq 22\%$, which would suggest $0.17 \leq a_w \leq 0.22$. As such, the salt concentration within the potentially produced brines may have been 0.62 g/g, assuming anhydrous calcium perchlorate. For example, if all the salt in the sample would have deliquesced, Experiment 10 should have resulted in 12 g of water in solution. However, only a 1 g increase in mass occurred throughout the experiment. This would imply that not all the salt in the sample had deliquesced. In fact, assuming the mass change was attributed to only liquid formation then about 8% of the salt, by mass, would have been in solution. This may have limited grain darkening, especially given that a significant part of the mass increase likely occurred due to adsorption. Alternatively, the water activity of the resultant brines may have been lower than the equilibrium value. For the example of Experiment 10, this would lead to producing brines with a salt concentration of ~ 0.95 g/g,

assuming the 1 g mass increase was all due to water entering the liquid state. In light of the experimental work by Nikolakakos and Whiteway (2018), which did observe grain darkening but at higher humidity, our results imply that the required water activity to produce darkening is likely between $0.2 \leq a_w \leq 0.5$.

The limited water availability may also account for why some of the experiments that could have deliquesced in the chamber underwent visible grain darkening shortly after being exposed to ambient conditions while others did not. Experiments 9-11 experienced grain darkening on the surface after the experiment ended. In all three of these experiments the calcium perchlorate concentration was above 5 wt%. These experiments were also slightly warmer and had slightly higher relative humidity. These conditions allowed the salts to adsorb more water. Therefore, when the experiments were exposed to ambient conditions, the salts had less water to adsorb before deliquescing and causing the regolith to darken. Experiments 7 and 8 did not see regolith darkening within the hour after the experiments ended. Both experiments had only 1 wt% of calcium perchlorate. In addition, Experiment 7 had a relative humidity of ~10%, limiting the water availability even more. The salts most likely did not have as much water adsorbed during the experiment and when exposed to ambient conditions had more water to adsorb before deliquescing and producing observable regolith darkening.

Of note, we found that in only the cases where deliquescence was possible within the chamber, the water vapor pressure gradient between the sample and the atmosphere was negative (Figure 11), i.e., larger at the sample than the chamber's atmosphere. This should lead to mass loss as the gradient would drive water vapor diffusion out of the sample, and yet there was appreciable mass gain for these experiments. Furthermore, the water vapor pressure gradient stabilized at the end of each experiment with a difference between the sample and atmosphere of

30-50 Pa of water vapor pressure. For example, the longer experiments reached a gradient of 50 Pa within 10 hours and kept this gradient until the end of the experiment (>30 hours). Therefore, an active process at the sample that forces and maintains the chamber out of equilibrium is likely occurring. However, if water uptake was actively occurring throughout the experiment, then the water vapor pressure gradient should have been positive (i.e., larger in the atmosphere than above the sample) since a depletion process would have been active. We suggest that this observation, along with the above argument of the production of small amounts of liquid, may imply that water uptake by deliquescence did not occur throughout the experiment. Rather, it occurred near the beginning of the experiment when the gradient was positive and then ceased when the saturation vapor pressure of the resultant brine exceeded the ambient humidity. Indeed, in all experiments where deliquescence may have occurred, the initial water vapor pressure gradient was positive for the first hour. This may suggest that deliquescence happened for only a small fraction of the experiment runtime and that most of the mass gain was due to adsorption by the regolith.

2.6 Conclusion

We conducted experiments on the water uptake of a mixture of regolith, here specifically the JSC-Mars-1 simulant, and calcium perchlorate under semi-Mars-like conditions to particularly test for the formation of brines at the macroscale. All samples were desiccated before use. Six controls were conducted, one set at low relative humidity (~7%) and another at higher humidity (~20%). Each set consisted of an experiment with an empty petri dish, a petri dish of JSC Mars-1, and a petri dish filled with calcium perchlorate. Five experiments were conducted mixing varying weight percent (1- 5.5%) of calcium perchlorate into 2 cm of JSC Mars-1

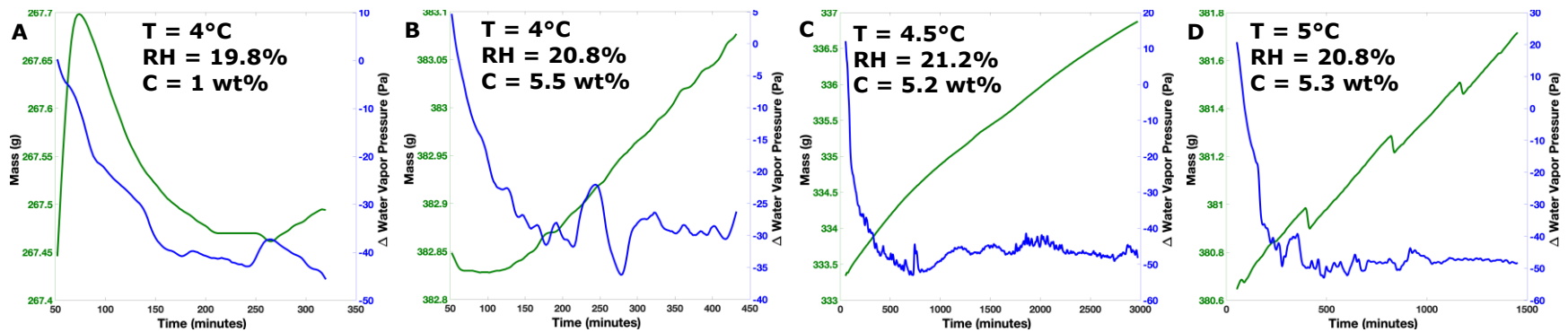


Figure 11: A: Mass vs time (left-hand side and green) and water vapor pressure gradient vs time (right-hand side and blue) for the experiments that were under conditions that would have permitted deliquescence. At the beginning of all 4 experiments, the water vapor pressure gradient was positive. After the first hour, though, the gradient was negative. This was maintained for the rest of the experiment. This means that for most of the experiment run time there was more water vapor above the sample than in the atmosphere. The water vapor pressure gradient also increased and stabilized to between 30-50 Pa. If the chamber was in equilibrium, it should have stabilized out around 0 Pa. The change in the water vapor pressure was calculated using the RH hygrometer directly above the sample. Small fluctuations in mass (as seen in D) over time may have been caused by instrumentation, such as the vacuum pump turning on and off.

Martian regolith. Temperature, mass, and relative humidity were recorded throughout the experiments and pictures of the sample were taken before and after the experiment for comparison.

We find that the rate of water uptake of a salty Mars regolith analog is nearly twice as high as that of our regolith-only experiments. This is likely due to additional active water vapor sinks in the salty regolith samples, such as solid-state salt hydration and/or deliquescence. Furthermore, our results imply that an adsorbing regolith does not out compete salt-related water vapor sinks in a hyperarid environment. However, it is important to note that the chamber environment contained an order of magnitude more water

vapor than what has been typically measured at the surface of Mars (~100 Pa in the chamber compared to <10 Pa on Mars) (Rivera-Valentín et al., 2020).

Out of five experiments conducted with a salty regolith sample, four occurred with chamber conditions that should have allowed deliquescence to occur. However, we did not identify regolith darkening on the surface of the sample in any of these experiments. Using our salt-only control experiment under humid conditions that should have led to the sample's deliquescence, we identified other diagnostic changes potentially indicative of small amount of brine formation. Specifically, in this experiment some of the salts became translucent and appeared semi-dissolved. Such morphological changes of the salt grains also occurred in the salty regolith experiments that were expected to deliquesce given the chamber's temperature and humidity. Together, the measured mass change and observed morphological changes of the salt crystals, suggest deliquescence may have occurred but did not lead to regolith darkening. This contrasts the work by Nikolakakos and Whiteway (2018), which observed darkening but at higher relative humidity. Thus, together our work suggests that regolith darkening may only occur at high humidities, at least higher than 20% relative humidity with respect to liquid.

Furthermore, we noticed that only the experiments where deliquescence was expected had a negative water vapor pressure gradient (i.e., higher water vapor pressure at the sample than the atmosphere) for most of the experiment. Indeed, this gradient was retained for many hours (>24 hours) and stabilized at a difference of some 50 Pa. A negative water vapor gradient would suggest mass loss from the sample should occur due to diffusion; however, the samples had measurable increases in mass. We hypothesize that deliquescence occurred at the beginning of the experiment when the water vapor gradient was positive. It then ceased when the saturation vapor pressure above the resultant brines surpassed that of the ambient atmosphere. From this

point forward, the active water vapor sink would have been adsorption by the regolith and potentially solid state salt hydration. This process would also explain the small amounts of produced brines in the sample. Additional experiments under a broader set of conditions, and with the addition of measurements of sample wetness, such as through dielectric permittivity changes, are required to better understand this occurrence.

The kinetics of adsorption and deliquescence are experimentally not well constrained under Mars-relevant combinations of temperature and humidity. In our work, we found that the regolith-only experiments underwent much higher mass increases than the salt-only experiment. This may suggest that adsorption may act as a more effective water vapor sink than salt deliquescence in hyperarid conditions. However, more experiments are needed to understand the dependence of these processes over a broader range of environmental conditions (e.g., temperature and/or humidity). Additional experiments at cooler temperatures and lower water vapor are particularly needed to better characterize the potential of deliquescence under ideal Martian conditions. In particular, at colder temperatures, kinetics may reduce the possibility of deliquescence (e.g., Fischer et al., 2014); however, much like in our experiments, this may result in less of the salts in the martian regolith deliquescing rather than no salt entering solution. Exposing complex subtleties in diffusion, adsorption/desorption cycles, and deliquescence processes on Mars, specifically the limits to which liquid formation is possible, has important implications for liquid stability and habitability near the surface, future missions to Mars, and the continuing search for liquid water.

2.7 Acknowledgements

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Chapter 3

Experimental Setups to Attempt Higher Relative Humidities Inside the Ares Mars Simulation Chamber

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3.1 Abstract

Salts, like calcium perchlorate, on the martian surface and near-surface may exchange water vapor via solid state salt hydration and deliquescence. One of the more indicative ways to determine if deliquescence has occurred is by regolith darkening around the salt. Here we attempted different experimental setups and procedures to the Ares Mars simulation chamber to allow for higher humidities which could produce this regolith darkening to occur. A series of 16 experiments, split into 5 experimental sets, were conducted to try and develop a protocol to achieve a relative humidity of approximately 50% or higher. Each experimental set up included different parameters and variables including humidity buffer type, bags of ice, location of sample and buffer in the chamber, pressure range, a N₂ mixed with 500 ppm H₂O mixed gas, temperature, and how the chamber was prepared. All of these experiments were conducted with an empty petridish to ensure no interference with the humidity from the sample. None of the attempts achieved humidity levels higher than 19%. The setup with the highest humidity consisted of two NaCl saturated solution humidity buffers in the chamber- one of which was elevated 15.25 cm off the chamber floor, the scale and sample being elevated 13.3 cm, and multiple open bags of ice water throughout the chamber. It is still unclear why the simulation chamber did not reach higher humidity values, when the parameters should have allowed higher conditions. More techniques and variables are being tested to determine the best protocol to increase humidity.

3.2 Introduction

One of the biggest drivers in the search for habitable conditions on Mars is liquid water. One of the best ways for liquid water to be present with in a brine solution (Brass, 1980; Chevrier et al., 2009), since salt lowers the freezing point of the water. Rovers, landers, and orbiters have made multiple observations that suggests perchlorates, chloride, and other salts are ubiquitous on Mars (Hecht et al., 2009; Diez et al., 2009; Cull et al., 2014; Ming et al., 2014; Kouanves et al., 2014; Clark and Kouanves, 2015). The presence of liquid water on the surface of Mars has also been detected by orbiters and in-situ observations, like at the Phoenix landing site where potential brine droplets were observed on the landing struts (Rennó et al., 2009) and through dielectric measurements of transient liquids in the regolith (Stillman and Grimm, 2011). Recent studies have shown that current conditions on Mars may allow for stable brines on the surface and in the shallow sub-surface, but only for a limited time of the year (Rivera-Valentín et al., 2020; Chevrier et al., 2020).

A prospective formation for brine development (Gough et al., 2011; 2014; Nuding et al.; 2014; Zorzano et al., 2009) is through a process called deliquescence, which is the transition from a solid salt crystal into an aqueous solution when exposed to a humid atmosphere. Experimental work has focused on defining how the brines form, through adsorbing water vapor (Zorzano et al., 2009, Gough et al., 2011; 2014; 2016; Nuding et al., 2014; Nikolakakos and Whiteway, 2015; 2018; Fernanders et al., 2022). Slank et al. (2022) conducted experiments in a Mars simulation chamber to understand if low relative humidity conditions would allow the deliquescence process to occur, and if it did, was there regolith darkening from the brine. They mixed JSC Mars-1 martian regolith simulant with 1-5.5 wt% of calcium perchlorate and ran experiments between 6-50 hr, at a humidity of ~20% and temperatures ~4°C.

The experiments in Slank et al. (2022) demonstrated that deliquescence was achievable inside the Mars simulation chamber at the Keck Lab at the University of Arkansas. However, the regolith darkening that is indicative of deliquescence did not occur, due to lack of sufficient water vapor inside the chamber. Nikolakakos and Whiteway (2018) achieved deliquescence and regolith darkening in their experiments, where relative humidity was around 50%. In order to achieve high water vapor, a higher humidity is needed. Here we demonstrate multiple attempts to reach higher humidity inside the chamber. While we did not reach humidity levels that would allow regolith darkening, we did explore multiple ways to alter the relative humidity.

3.3 Methods

3.3.1 Chamber

The experiments were conducted in the Ares Mars simulation chamber. The chamber set up and instrumentation is described in detail in Slank et al. (2022). There were a few minor revisions to the chamber set up. A gas line was added to one of the open ports on the chamber that was connected to a gas cylinder of N₂ mixed with 500 ppm of H₂O, with a flow meter in the middle to help control how much gas flowed into the chamber. Two different humidity buffers were used. One buffer type was the LiCl saturated solution, used in previous experiments by Slank et al. (2022). The second buffer was a NaCl saturated solution which has a relative humidity (RH) of $75.29\% \pm 0.12\%$ at 0°C. Two saturated buffers were made for each buffer type. In these experiments, two humidity buffers (of the same solution) were placed in the chamber. For some of the experiments the humidity buffer and/ or the scale with the sample petridish was elevated in the chamber. For those instances, one of the two saturated humidity buffers was elevated 15.25 cm above the bottom floor of the chamber, sitting on a steel can. For

the instances where the scale and petridish were elevated, the scale was placed on four steal cans, one on each corner of the scale, raising it 13.3 cm off the chamber floor (Fig. 1).



Figure 1: Inside look of the chamber with the scale and petridish elevated by four cans, one in each corner. The NaCl saturated humidity buffer is elevated on a can, so the buffer can be closer to the sample.

A big addition to the chamber protocol is adding ice into the experiments. There were two different ways ice was added. The first was placing four ice cubes in the sample petridish. The second way was placing open ziplock bags of ice in various locations in the chamber (Fig. 2). There were two sized bags: the sandwich and the gallon. The bags were double bagged to

prevent water from leaking out of the ziplock bag. The bags were also never at capacity. The minimum amount of bags of ice in the chamber was three and the maximum was six.

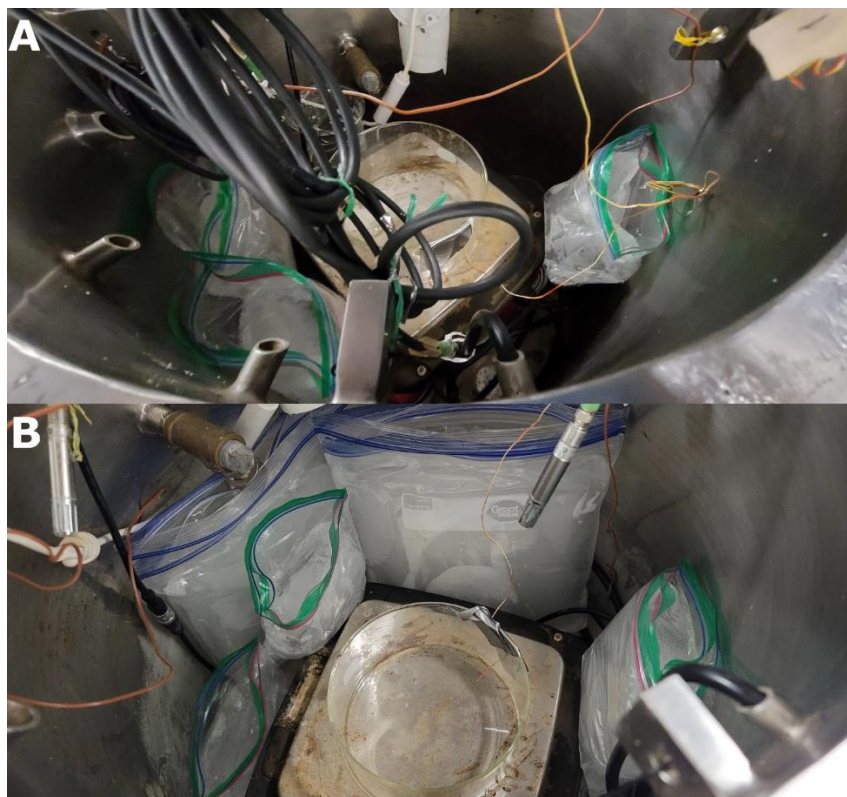


Figure 2: A: An inside look of the chamber while the sample is elevated. Three open sandwich bags are placed around the sample to allow for additional water vapor to be introduced into the chamber. **B:** The inside of the chamber when the sample is not elevated. There are two open gallon sized bags of ice and three open sandwich sized bags of ice surrounding the sample for additional water vapor to be introduced to the chamber.

3.3.2 Experimental Protocol

A series of sixteen experiments were conducted (Table 1) in the Ares Mars simulation chamber. The first five experiments (set 1) did not have ice in the chamber. This set consisted of exploring the RH range with the N₂ mixed with 500 ppm H₂O gas mixture and 2 NaCl humidity buffers. The second set of experiments (Experiments 6-8) explored how ice cubes could control the humidity. Experiment 6 had ice cubes, the NaCl buffers, and the N₂ mixed with 500 ppm H₂O gas mixture. Experiment 7 had ice cubes and the NaCl buffers. Experiment 8 just had the

four ice cubes. The third set of experiments (Experiments 9-11) explored how bags of water ice and 2 NaCl buffers affected humidity. The fourth set of experiments (Experiments 12-13) were similar to the third set, only the humidity buffers were LiCl. These two experiments analyzed the 2 LiCl buffers and bags of water ice and how that affected the chamber humidity. The fifth, and last experimental set (Experiments 14-16) explore how the humidity is affected by just bags of ice.

Experiment	Sample Temperature °C	Sample RH %	Buffer type	Buffer elevated	# of buffers	Sample elevated	Ice in the chamber	N ₂ H ₂ O gas	CO ₂ infilled	Pressure Range mb	Time Run (minutes)
1	1	0	NaCl	No	2	No	No	No	Yes	5.5-6.2	794t
2	2.4	4	NaCl	No	2	No	No	Yes	Yes	10-11.3	337
3	2.2	5	NaCl	No	2	No	No	Yes	Yes	10-11.3	380
4	4.3	7	none		0	Yes	No	Yes	Yes	10-11.3	470
5	7.4	2	NaCl	Yes	2	Yes	No	Yes	Yes	10-11.3	470
6	1.3	12	NaCl	Yes	2	Yes	4 Ice Cubes	Yes	No	10-11.3	110
7	2.3	16	NaCl	Yes	2	Yes	4 Ice Cubes	No	No	10-11.3	130
8	2	14	none		0	Yes	4 Ice Cubes	No	No	10-11.3	138
9	3.3	19	NaCl	Yes	2	Yes	3 Sandwich bags open	No	No	973	270
10	4.9	14	NaCl	Yes	2	Yes	3 Sandwich bags open	No	No	10-11.3	140
11	4	17	NaCl	Yes	2	Yes	1 gallon sized bag open, 3 sandwich bags open	No	No	10-11.3	270
12	4.3	11	LiCl	Yes	2	Yes	3 Sandwich bags open	No	No	10-11.3	126
13	4.1	17	LiCl	Yes	2	Yes	1 gallon sized bag open, 3 sandwich bags open	No	No	10-11.3	564
14	1.4	6	none		0	Yes	2 gallon sized bags opened, 2 sandwich size bags open	No	Yes	pulled to 6mb then vac turned off	682
15	-8.7	10	none		0	No	2 gallon sized bags opened, 3 sandwich size bags open	No	Yes	pulled to 6mb then vac turned off	1248
16	-2.5	3	none		0	No	2 gallon sized bags opened, 4 sandwich size bags open	No	Yes	5.5-6.5	1156

Table 1: List of experiment set up and variables.

The chamber is initially chilled for at least 24 hours before an experiment starts. The humidity buffers are placed in the chamber, near the scale, and chilled with the chamber. The bags of distilled water are placed in freezer to cool to -25°C, when they are not in the chamber. Once the chamber was at the appropriate temperature, the chamber was pulled to vacuum and the filled with CO₂ (Experiments 1-5 and 14-16). Once the pressure was back to 1 bar, or for

Experiments 6-13, the chamber lid was unbolted, and the lid raised. The temperature, RH, and scale were turned on and started recording. If ice cubes or ice bags were needed for that experiment, they were placed in the chamber. Once the experiment was ready to start, the lid was closed and bolted down, and the vacuum pump turned on. The chamber was pulled to the appropriate pressure (either 5.5 or 10 mb, excluding Experiment 9 which was at ambient pressure). Once the chamber is at the appropriate pressure the N₂ mixed with 500 ppm of H₂O (Experiments 2-6) was turned on and released into the chamber. The experiments were run completely autonomously for the entirety of the experimental run.

There are 4 thermocouples inside the chamber, that record temperature every minute. One thermocouple recorded the upper atmosphere of the chamber, one the lower atmosphere of the chamber, one was secured to the humidity buffer closest to the scale (usually elevated), and one secured to the petridish that sat on top of the scale. The scale recorded mass every two minutes. Three hygrometers were inside the chamber, recording humidity every minute. One was in the upper atmosphere of the chamber, one secured over the humidity buffer closest to the scale (usually elevated), and one secured above the petridish. Pictures were taken before and after each experiment.

3.4 Results

3.4.1 Set 1: N₂ H₂O Gas Mixture

A set of five experiments was conducted to better understand the N₂ mixed with 500 ppm of H₂O vapor. The first experiment (Experiment 1) was a control, that was infilled with CO₂ before the experiment and had 2 NaCl buffers. The experiment ran for 794 minutes, however the temperature software crashed 94 minutes in. However, before the crash, the empty petridish was

1.5°C and the NaCl buffer was -6.9°C (Fig. 3, A). The starting and ending mass were 0.01 g off from each other, but there were many oscillations throughout the experiment. The mass oscillations were most likely caused by the quick change in pressure of the vacuum pump turning on and off to maintain a certain pressure range. The RH of the petridish was the lowest, at 0.5%, followed by the upper atmosphere at 2.8%, the NaCl buffer having the highest RH at 9.4%.

Experiments 2 and 3 use the gas mixture, along with the 2 NaCl buffers, and a higher pressure (10-11.3mb). Experiment 2 saw a mass decrease of 0.07 g throughout the 337 minutes experiment, although there were oscillations throughout the experiment (Fig. 3, B). The RH of the sample was the lowest in the chamber, at 4.8%, while the upper atmosphere and the buffer and humidities of 9.5% and 12.7% respectively. The buffer was about -4.4°C, whereas the sample was 2.5°C. Experiment 3 was conducted the same way as Experiment 2, only it had an increased flow rate of the gas mixture. The starting and ending mass were 0.01 g off from each other (Fig. 3, C), but there were many oscillations throughout the experiment. The lowest mass was 244.23 g and the highest mass was 244.75, but most of the time, the mass was around 244.26 to 244.35 g. This experiment followed the same trend as the previous two experiments, with the sample having the lowest humidity (5.1%), followed by the upper atmosphere (9.6%), and the buffer having the highest humidity was 20.48%. The temperatures were also similar to Experiment 2, with the buffer being -4.8°C and the sample being 2.3°C.

Not seeing as high of humidity values as expected, it was hypothesized that the gas mixture was being pulled out of the chamber too fast and not able to sink down into the chamber to reach the sample/petridish. In Experiment 4, the scale and petridish was elevated 13.3 cm off the chamber floor, to be closer to the in valve of the N₂ mixed with 500 ppm H₂O vapor. Both NaCl buffers were removed for this experiment, to get a better feel if elevating the sample helped

achieve higher humidity values. The mass decreased 1.81 g over the 470-minute-long experiment (Fig. 3, D). The humidity values were different in this experiment, than the previous. The RH in all three locations decreased from the start. The sample and upper atmosphere reached 0% humidity and then started to increase the rest of the experiment. Meanwhile the buffer decreased in value the entire time, although it did decrease in intensity after the first 150 minutes. By the end of the experiment the sample had the highest humidity, with a RH of 7.5%, followed by the upper atmosphere (4.7%), and the buffer having the lowest RH at 1.7%. The temperatures were also different in this experiment. The sample was at 14.2°C and the buffer at -1.5°C. The upper and lower atmosphere temperatures were consistent with past experiments.

The NaCl buffers were added back into the chamber for Experiment 5. However, one of the buffers was elevated 15.25 cm off the chamber floor, allowing one of the buffers to be close to the sample, while the other buffer remained on the chamber floor. The RH and temperature were recorded for the elevated buffer. Experiment 5 was 470 minutes long. The sample started at a mass of 255.46 g and increased to 255.57 g before decreasing to 255.4 g by the end of the experiment (Fig. 3, E). The RH values were lower than the previous experiment, with the sample having a RH of 2.3%, the upper atmosphere at 2.5%, and the buffer at 10.1%. The gas mixture flow was the same for Experiments 3-5. The sample had a temperature of 7.4°C and the buffer of 0.6°C.

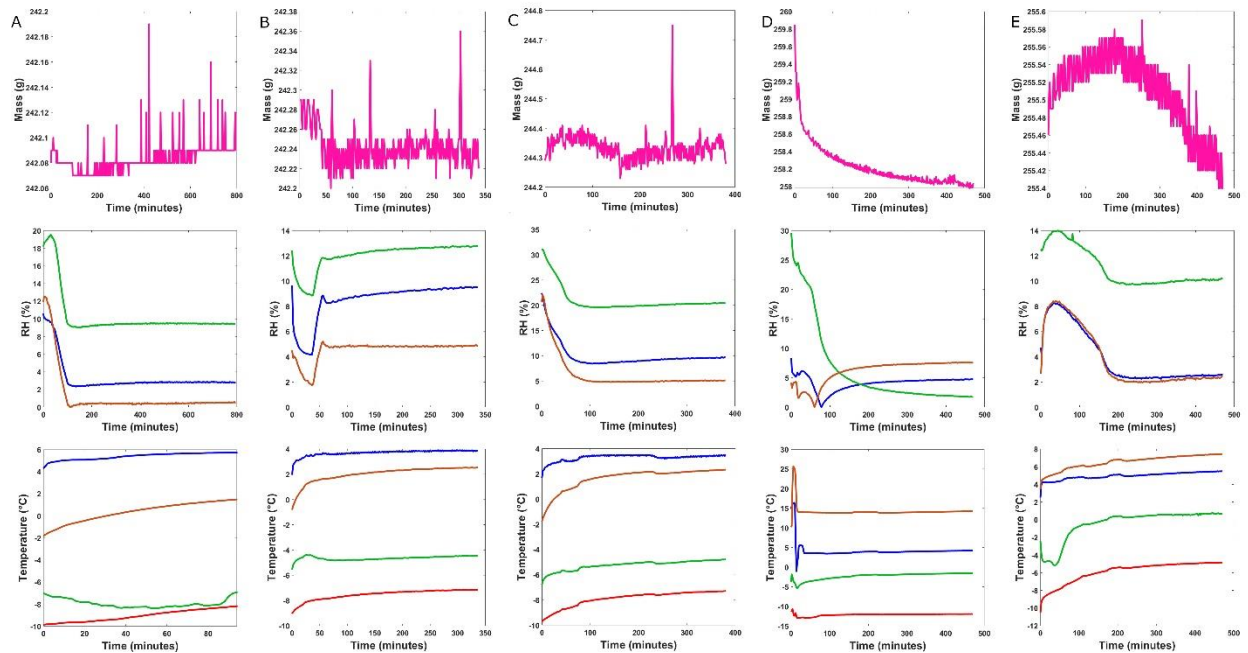


Figure 3: The mass (upper figure- pink), relative humidity (middle figure), and temperature (bottom figure) with respect to time for the experiments in set 1 (Experiments 1-5). The upper atmosphere is represented by a blue line, the lower atmosphere a red line, the humidity buffer by a green line, and the sample by a burnt orange line. Experiments 1-5 are represented by A-E respectively.

3.4.2 Set 2: Ice Cubes

Seeing that the N_2 mixed with 500 ppm H_2O vapor gas mixture and the two NaCl buffers did not reach desired RH values, even with the sample and buffer were elevated, a different approach was needed. The second set of experiments conducted was to see if adding ice to the chamber would increase the humidity values. In Experiments 6-8, four ice cubes were placed in the petridish. Systematically, parameters were removed to see what would produce the best RH values.

Experiment 6 consisted of the 4 ice cubes, the 2 NaCl buffers, one of which was elevated, and the gas mixture, all while the petridish was elevated. The sample decreased in mass almost linearly the entire experiment (Fig. 4, A). The sample lost 2.6 g in mass during the 110-minute

run. The RH of the sample was 12.3% and the upper atmosphere had a similar RH of 12.4%. The NaCl buffer had a RH value of 15.6%. The sample had a temperature of 1.36°C and the buffer was at 0.15°C.

Experiment 7 had the 4 ice cubes and the 2 humidity buffers. In this experiment the gas mixture was not turned on. Experiment 7 followed a very similar trends to Experiment 6. The sample decreased in mass almost linearly the entire 130-minute-long experiment (Fig. 4, B), losing 3.57 g. The RH of the sample was 16%, the upper atmosphere had a slightly lower RH of 15.7%, and the buffer had a RH of 18.3%. The sample had a temperature of 2.73°C and the buffer was at 0.24°C.

The last experiment in this set (Experiment 8) had just the 4 ice cubes. Both NaCl buffers were removed from the chamber and the gas mixture was never turned on. Experiment 8 was 138 minutes long. The mass started at 49.89 g and increased to 50.08 g before decreasing, almost linearly- but with some oscillations, to 47.75 g (Fig. 4, C). The sample lost 2.33 g at its peak mass to the end of the experiment. The RH of the sample, upper atmosphere, and buffer were 14.4%, 15.5%, and 23.6% respectively. The sample had a temperature of 2.3°C and the buffer was at -2.1°C.

The experimental set up that had the highest sample relative humidity values had the ice cubes and the NaCl buffers. The upper atmosphere had roughly the sample humidity in Experiments 7 and 8. Due to these results, it was decided to stop using the N₂ mixed with H₂O gas mixture and to just stick with the NaCl buffers and ice. However, since the humidity was still not to the desired values, the next experimental set up will include more ice in the chamber.

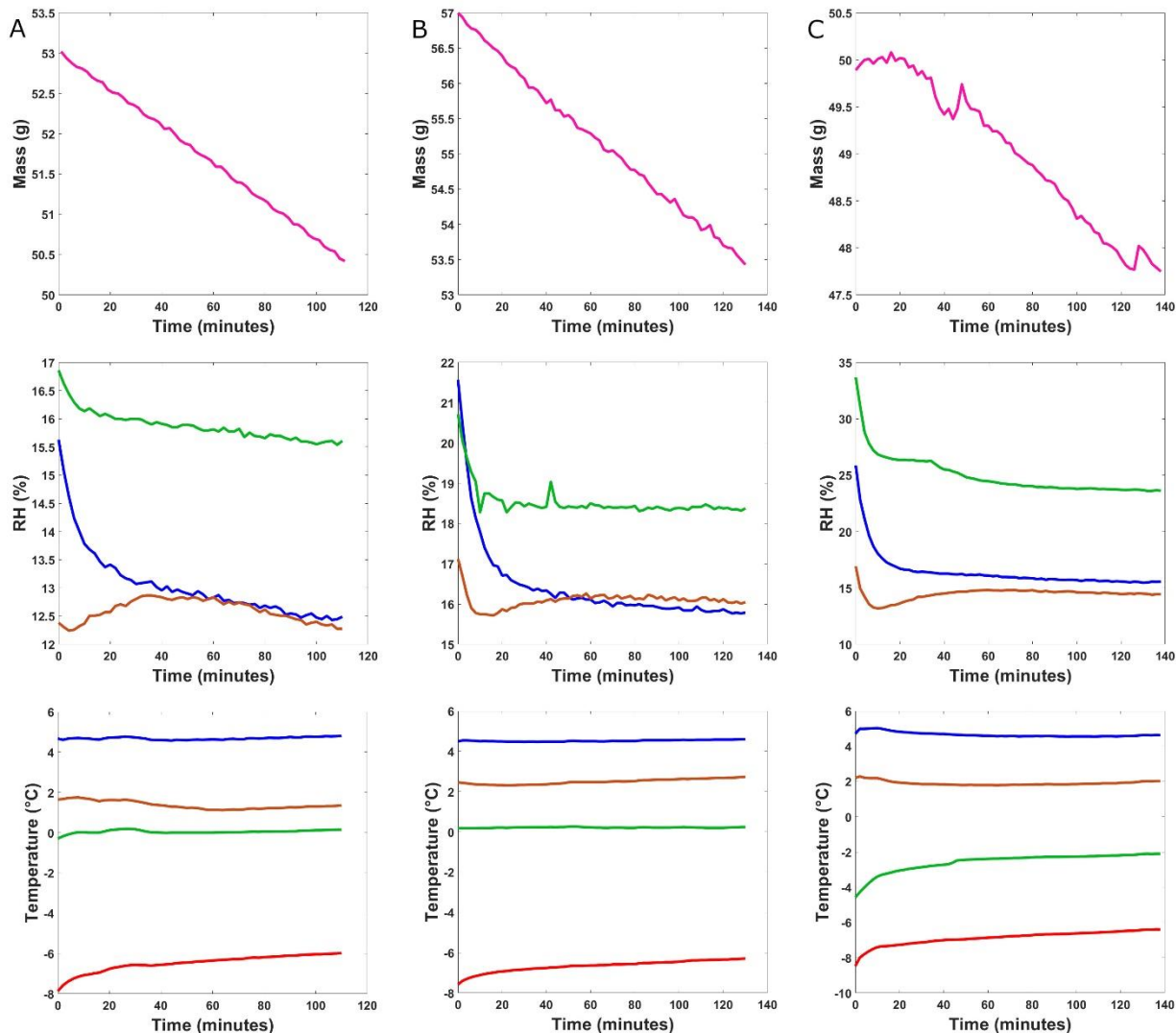


Figure 4: The mass (upper figure- pink), relative humidity (middle figure), and temperature (bottom figure) with respect to time for the experiments in set 2 (Experiments 6-8). The upper atmosphere is represented by a blue line, the lower atmosphere a red line, the humidity buffer by a green line, and the sample by a burnt orange line. Experiments 6-8 are represented by A-C respectively.

3.4.3 Set 3: NaCl Buffers and Bags of Ice

The third experimental set up includes the two NaCl buffers, one of which is elevated, and open ziplock bags of ice placed in various places in the chamber. The scale and petridish are still elevated. The vacuum pump had a malfunction at the beginning of Experiment 9, so the pressure in the chamber was 973 mb, ambient pressure. This experiment had 3 sandwich bag

sized bags of ice open in the chamber. The mass started at 244.56 g and had a sharp decrease in mass (244.45 g) at the 10-minute mark (Fig. 5, A). At 14 minutes the mass was back at 244.56 g and remained there for 180 minutes. The mass then oscillated between 244.56 g and 244.55 g for 28 minutes before remaining a constant mass of 245.55 g for the rest of the experiment.

Experiment 9 ran for 270 minutes. The relative humidity of the sample, upper atmosphere, and buffer were 19.9%, 20.5%, and 22% respectively. The temperature for the sample was 3.35°C and the buffer was -1.4°C.

The vacuum pump was fixed, so the pressure for Experiment 10 was back to the 10-11.3 mb range. This experiment ran for 140 minutes and had 3 sandwich sized bags of ice open with a 4th bag in the chamber used to increase the height of one of the bags. The mass started at 324.18 g and decreased to 302.11 g with quite a few oscillations occurring during the experiment (Fig. 5, B). One of the ice bags moved when the lid was being closed and leaned up against the scale. The Ice sublimating from the bag is most likely why there is such an extreme mass loss of 22.07 G. The RH of the sample was 14.7%, 17.2% for the upper atmosphere, and the buffer had a RH of 33.4%. The temperature of the sample was a little warmer than the previous experiment, at 4.93°C, whereas the buffer temperature was about the same, at -1.3°C.

Experiment 11 had the 3 sandwich sized ice bags open in the chamber with a 4th one to help add height to the ice. In addition, a gallon sized bag was added to the chamber, to release more water vapor into the chamber. The experiment ran for 270 minutes. The started at 243.46 g and oscillated the entire experiment, before ending with a mass of 243.52 g (Fig. 5, C). The upper atmosphere had the highest humidity during this experiment, with a RH of 26.3%, followed by the buffer at 22.6%, and the sample having the lowest humidity of 17.8%. When the lid was closing, the thermocouple that measured the upper atmosphere got hit with the gallon

sized bag, causing its readings to be inaccurate. The rest of the thermocouples read accurately. The sample was 4.07°C and the buffer was -2.02°C .

While the icebags and two NaCl buffers did increase the humidity in the chamber higher than the previous experiments, the humidity was still not in desirable range, and was much lower than expected. In the experimental setup by Slank et al. (2022), a LiCl saturated buffer was used and produced a sample humidity of $\sim 21\%$. It was speculated that with 2 LiCl buffers plus the bags of ice, the humidity might reach higher values.

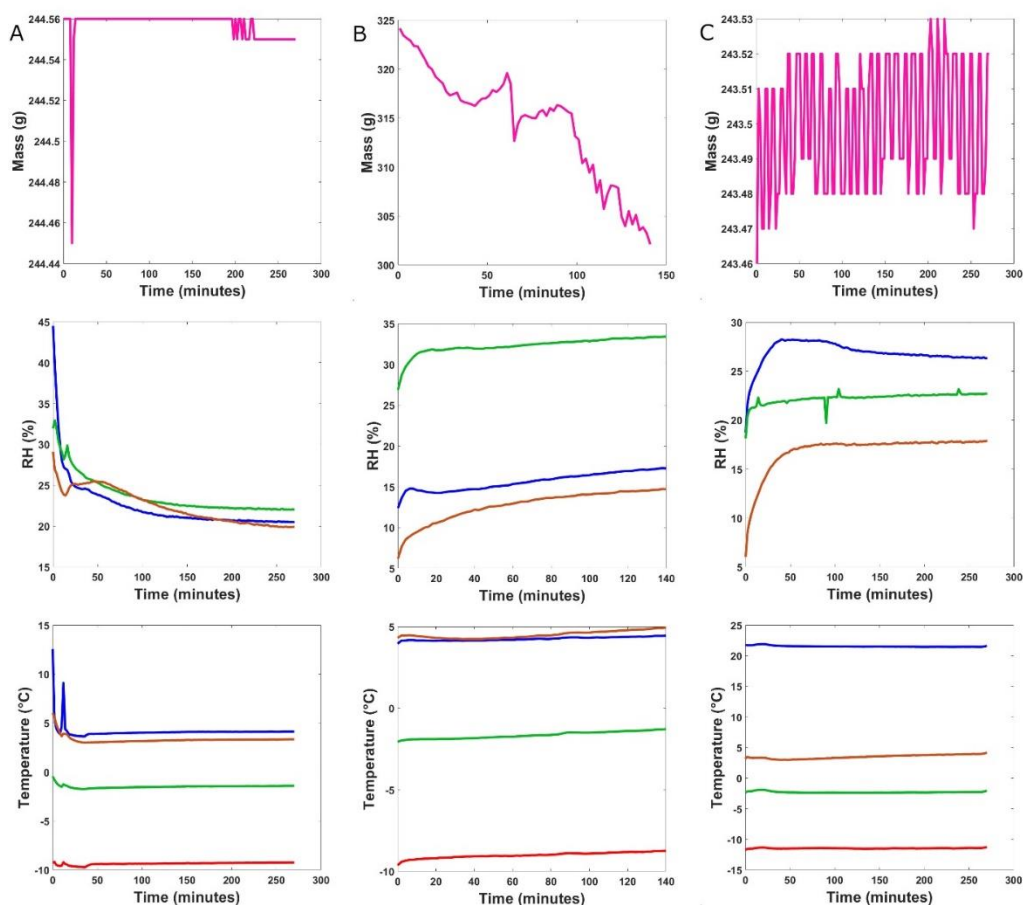


Figure 5: The mass (upper figure- pink), relative humidity (middle figure), and temperature (bottom figure) with respect to time for the experiments in set 3 (Experiments 9-11). The upper atmosphere is represented by a blue line, the lower atmosphere a red line, the humidity buffer by a green line, and the sample by a burnt orange line. Experiments 9-11 are represented by A-C respectively.

3.4.4 Set 4: LiCl Buffers and Bags of Ice

The same experimental setup that was used for experimental set 3 (Experiments 9-11) were used for set 4 (Experiments 12 and 13) with the exception of the humidity buffers. In these two experiments 2 LiCl humidity buffers were used. One of the buffers was still elevated, to be near the elevated scale and petridish. Both experiments were in a pressure range of 10 to 11.3 mb.

Experiment 12 had 3 open sandwich sized bags of ice placed in the chamber, with a fourth bag used for height for one of the open bags. The mass increased 0.03 g during this 126-minute-long experiment, however the mass oscillated the entire experiment (Fig. 6, A). The upper atmosphere had the highest RH value, at 17.4%, followed by the buffer at 13.9%, and the sample at 11.8%. The buffer had a temperature of -0.14°C and the sample was at 4.31°C .

An open gallon sized bag of ice was added into the chamber for Experiment 13, in addition to the sandwich sized bags already in place in the chamber. This experiment ran for 564 minutes. The mass started at 246.55 g and decreased in weight for the first 32 minutes, reaching a minimum mass of 246.32 g (Fig. 6, B). The mass then increased for the next 300 minutes, before oscillating at a steady mass of 247.13 g. Just like in the previous experiment, the upper atmosphere had the highest humidity, with a RH value of 30.3%. The sample had the next highest RH value, at 17.5%, and the buffer was slightly lower than that, with a RH of 17%. The sample had a temperature of 4.09°C and the buffer of 0.38°C . The upper atmosphere recorded a much lower temperature than in any of the other experiments conducted so far (-0.98°C). The thermocouple wire was very close to the gallon sandwich bag, causing it to record a temperature closer to the bag of ice instead of the upper atmosphere.

The humidity values using the LiCl saturated solution and ice bags did not produce higher values than the NaCl saturated solution and ice bags. It was decided to try a different setup than previously run, in hopes to reach desired humidity.

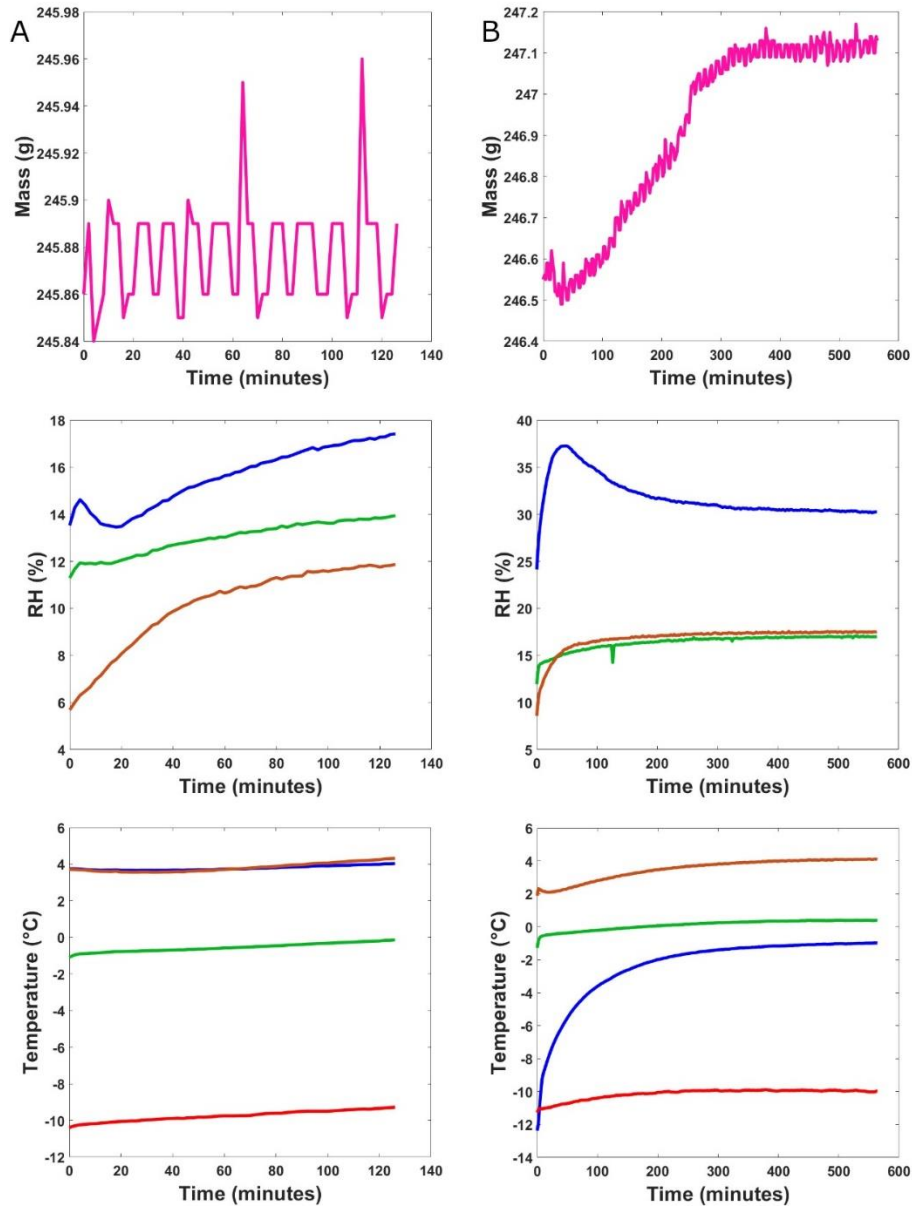


Figure 6: The mass (upper figure- pink), relative humidity (middle figure), and temperature (bottom figure) with respect to time for the experiments in set 4 (Experiments 12-13). The upper atmosphere is represented by a blue line, the lower atmosphere a red line, the humidity buffer by a green line, and the sample by a burnt orange line. Experiments 12-13 are represented by A-B respectively.

3.4.5 Set 5: No Buffers and Bags of Ice

The fifth and final experimental setup did not include humidity buffers. Both buffers were removed from the chamber, however, the thermocouple and hygrometer that would record the buffer stayed in the same place. The chiller was also turned down, allowing the chamber to reach colder temperatures, to see if the temperature was the inhibiting factor in the lower than desired humidity values. The chamber was infilled with CO₂ before the experiment started. For the first two experiments in this set (Experiments 14 and 15) once the experiment was ready to start, the chamber was pulled down to 6 mb of pressure. Once the desired pressure was reached the vacuum pump was turned off and the chamber was allowed to infill with water vapor from the icebags. For the third experiment in this set (Experiment 16) the pressure ranged from 5.5 to 6.5 mb throughout the experiment. More bags of ice were also added in these experiments.

Experiment 14 had 2 open gallon sized bags of ice and 2 open sandwich sized bags of ice placed inside the chamber. This experiment ran for 682 minutes. The mass started at 242.36 g and decreased 0.03 g in the first 10 minutes (Fig. 7, A). After that the mass increased the rest of the experiment, with a final mass gain of 0.58 g. The sample had the lowest humidity values, with a RH of 6%, followed by the upper atmosphere with a RH of 8.4%, and the buffer with 12.4%. The thermocouple that records the temperature for the humidity buffer got hit with one of the gallon sized bags as the lid was closing, therefore the readings for the buffer are not accurate. The other thermocouples recorded correctly. The temperature for the sample was 1.4°C.

Although the chamber was cooler, the temperature of the sample in Experiment 14 did not reflect that. Decrease the sample temperature the scale and petridish were placed back on the chamber floor. The four cans that elevated the scale were removed from the chamber. The experiment ran for 1,248 minutes. Inside the chamber was 2 open gallon sized bags of ice and 3

open sandwich sized bags of ice. The mass started at 242.93 and decreased for the first 14 minutes, down to a mass of 242.91 g (Fig. 7, B). The mass then increased for most of the experiment, excluding a 6-minute decrease, before stabilizing out at 243.62 g. All three humidity locations followed a trend, where the humidity increased and then decreased in a parabolic shape. The sample had the highest RH, with a value of 9.6%, followed by the buffer at 8.9%, and the upper atmosphere had the lowest humidity at 7.8%. Lowering the scale and petridish to the chamber did help with lowering the temperatures. The sample had a temperature of -8.76°C and the buffer was -7.29°C .

Letting the chamber infill with water vapor was producing low humidity values. For Experiment 16, instead of turning off the vacuum pump once the chamber reached 6 mb the chamber maintained a pressure between 5.5 and 6.5 mb throughout the 1156-minute-long experiment. The mass oscillated the entire experiment within 0.04 g (Fig. 7, C). The starting mass was 241.92 g and the final mass was 241.93 g. The sample had the lowest humidity, with a value of 3%, followed by the upper atmosphere with a RH of 5.9%, and the buffer with a value of 6.3%. The temperature of the buffer was -11.94°C , while the sample had a temperature of -2.59°C .

This experimental setup did not achieve the humidity values desired. In fact, other than experimental setup 1, this setup produced the lowest humidity values. Quite a few different parameters were tested during these 16 experiments, but the right conditions were not tested to produced high enough humidity values that would allow regolith darkening from deliquescence to occur.

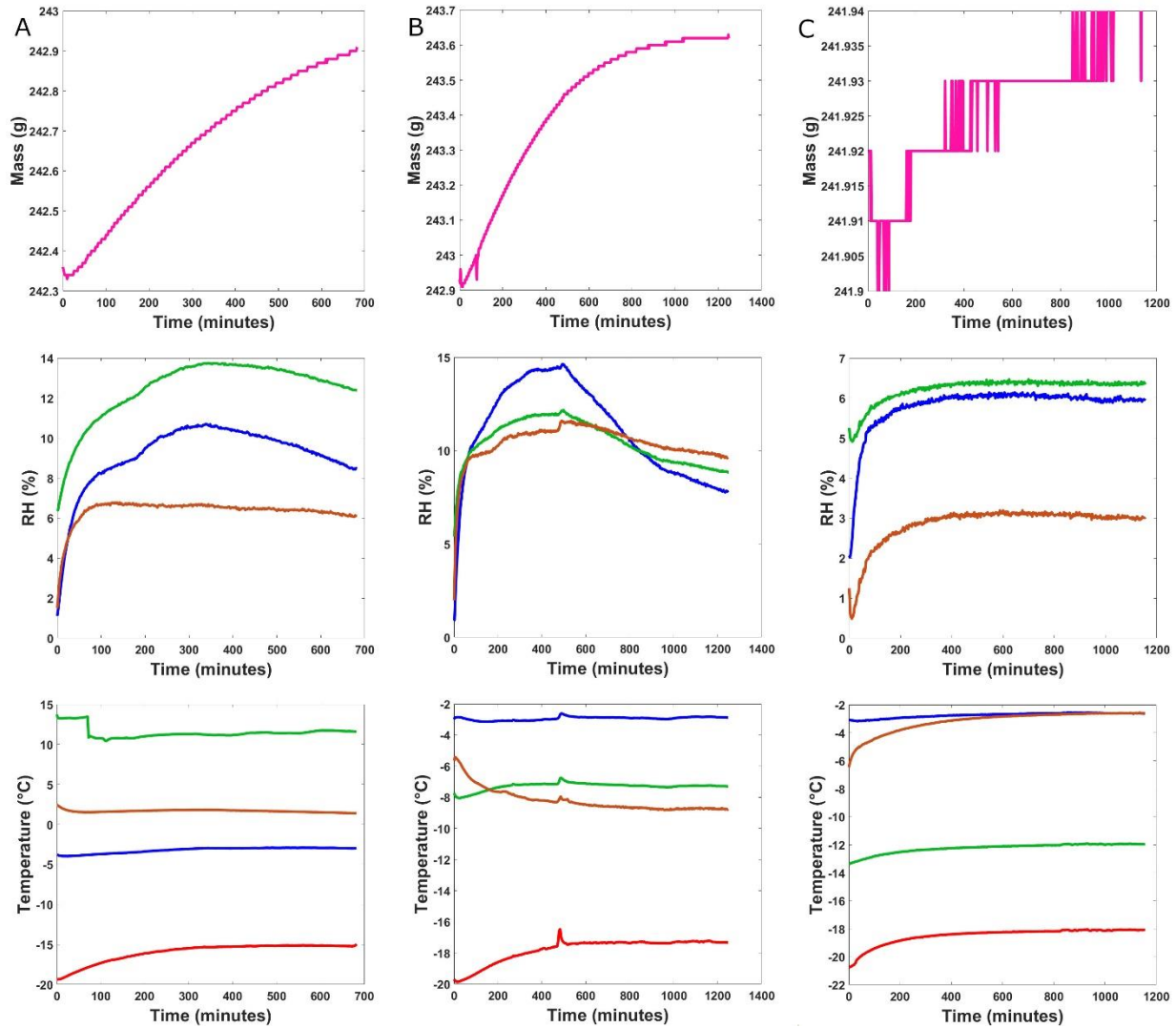


Figure 7: The mass (upper figure- pink), relative humidity (middle figure), and temperature (bottom figure) with respect to time for the experiments in set 5 (Experiments 14-16). The upper atmosphere is represented by a blue line, the lower atmosphere a red line, the humidity buffer by a green line, and the sample by a burnt orange line. Experiments 14-16 are represented by A-C respectively.

3.5 Discussion

Nikolakakos and Whiteway (2018) conducted experiments that experienced deliquescence and regolith darkening at a humidity of 50%. However, in these experiments, the highest humidity at the sample was 19%. These experiments were all conducted without regolith or salt, but based on the humidity values, regolith darkening would not occur. In fact, Slank et al.

(2022) reached RH values of 22% at the sample of JSC Mars-1 and calcium perchlorate and did not see regolith darkening, so it is safe to assume that if regolith and salt were present in these experiments, regolith darkening would not have occurred.

The main question is why did the humidity not reach higher values? The experiments conducted in Slank et al. (2022) conducted experiments with one LiCl saturated solution as the humidity buffer. LiCl at 0° has an average humidity of $11.2 \pm 0.5\%$ and increases in value as the temperature increases. NaCl at 0° has an average humidity of $75.29 \pm 0.12\%$ and increases in value as the temperature increases. However, when the NaCl buffer were added to the chamber, the humidity did not reach 20%. It was hypothesized that the atmosphere was being replaced too rapidly by the vacuum pump to maintain a high humidity in the chamber. A second buffer was added, and the pressure was increased to 10-11.3 mb to allow the atmosphere to not be replaced as often. When that didn't work, the N₂ gas H₂O vapor mixture was added, releasing even more water vapor and therefore increasing the humidity, in the chamber. When that did not work, the scale and petridish were elevated to allow the sample to be closed to the input valve where the gas mixture is released into the chamber. The buffer was also elevated in ensure the buffer was still close to the sample. The chamber should have had a humidity well above 50% but in these experiments (set 1) the humidity of the sample never exceeded 7%.

While it is not understood why the humidity was not reaching appropriate values, it was clear a different approach was needed. Set 2 added ice cubes to the chamber and started narrowing down humidity sources to determine which produced the best conditions to continue. The sample RH doubled when ice was added to the mix. This set confirmed that the gas mixture was not producing the results needed and was in fact hindering the humidity. However, even with the ice cubes added, the humidity was still very low. It was concluded that the ice cubes

were not enough ice to allow for higher humidities, and more ice was needed inside the chamber. Bags of water ice in addition to the NaCl buffers were the solution to this problem. This set of experiments (set 3) did produce the highest RH values for the sample, yet the highest RH was 19%. Again, it is unclear why the humidity values remain so low in the chamber when there was more than sufficient amounts of ice, and two NaCl buffers that should produce 75% humidity, and does when in ambient conditions.

It was again theorized that the NaCl buffers may not have the time needed to produced high humidity before the thin atmosphere is replaced in the chamber. It is known that the LiCl buffers can quickly create and maintain the humidity predicted (and higher in some cases) in the chamber (Slank et al., 2022). Although the LiCl buffer has a RH of 11% at 0°C, the sample achieved values of 19-22%. Due to those factors, two LiCl buffers were placed in the chamber, replacing the NaCl buffers. The RH of the sample was 11% and 17% for Experiments 12 and 13 respectively. These humidities were lower than the RH from the NaCl and ice bag experiments (Experiments 9-11). Although disappointing, the RH values were within the expected range for the LiCl buffers.

It became evident that the experimental setup was not going to achieve the desired relative humidity and that a new approach was necessary. One of three things were believed to be the problem. One, the buffers were competing with the bags of ice. Two, the vacuum pump was replacing the atmosphere too quickly. Three, the temperature was not cold enough to allow for higher humidites. These hypotheses were tested in set 5 (Experiments 14-16). The buffers were removed, and more bags of water ice were added. The chiller was turned down to a cooler temperature, dropping the sample temperature below 0°C. For the first two experiments in the set the chamber was pulled to 6 mb of pressure, and then the vacuum pump was turned off, allowing

the chamber to infill with the water vapor from the bags of ice. While all of these parameters seemed reasonable, the RH of the sample ranged between 6 and 10% humidity. When the vacuum pump was allowed to control the pressure between 5.5 and 6.5 mb (Experiment 16) the sample RH decreased to 3%.

Various attempts to increase the humidity in the chamber did not have the desired results for a relative humidity near 50%. The buffer type was exchanged, a gas mixture was used, ice bags were added, pressure ranges were altered, location in the chamber was changed, temperatures were lowered, and yet none of alterations had any meaningful change to the relative humidity. There are a few solutions left untested. If the vacuum pump is replacing the atmosphere too quickly, a filter or hydrophobic spray may help keep the water vapor in the chamber while keeping the chamber at the appropriate pressure. A different way to add water vapor into the chamber may be needed, including physically injecting water vapor with a syringe in through a fitted port. Another option might be to build a secondary chamber that houses water ice, where gas flows through that chamber and into the main chamber, carrying in water vapor that is a different temperature than the main chamber.

3.6 Conclusions

A series of 16 experiments, split into 5 experimental sets, were conducted in the Mars simulation chamber to try and develop a protocol to achieve a relative humidity of approximately 50% or higher in the chamber. Each experimental set up included different parameters and variables that should have allowed conditions for higher humidity. These parameters consist of humidity buffer type, bags of ice, location of sample and buffer in the chamber, pressure range, a N₂ mixed with 500 ppm H₂O mixed gas, temperature, and how the chamber was prepared. All of

these experiments were conducted with an empty petridish to ensure no interference with the humidity from the sample.

None of the experiments produced high humidity for the sample location. The highest RH was 19%, with two NaCl saturated solution humidity buffers- one of which was elevated in the chamber, the scale and sample being elevated, and multiple open bags of ice throughout the chamber. While it is not fully understood what prevented the chamber from reaching desired humidity values, more variables and techniques will be tested in the future. Relative humidity, and water vapor availability, are essential in understanding deliquescence in a Mars-like environment. Achieving higher humidity values would allow deliquescence to fully occur in the chamber, causing the regolith darkening. This information is not only needed to understand deliquescence, but also to understand the near surface water cycle, and adsorption of the surrounding regolith.

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Chapter 4

Deliquescence/Efflorescence Cycles of Varying Salts in the Atacama Desert

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4.1 Abstract

The Atacama Desert has been considered a martian analog due to its very limited water availability and salt content. This is an ideal area to test deliquescence/efflorescence cycling of brines in respect to a warm martian day. We conducted long field experiments from June 23, 2015 to February 2, 2016 to record deliquescence/efflorescence cycles with six different one kilogram samples of salt (CaSO_4 , MgSO_4 , NaCl , CaCl_2 , MgCl_2 , and $\text{Ca}(\text{ClO}_4)_2$) and one sample of 1 wt% $\text{Ca}(\text{ClO}_4)_2$ mixed with 99% Atacama soil. Electric conductivity readers recorded voltage, temperature, and relative humidity throughout the experiments. If the voltage recorded a voltage greater than zero, water was detected. MgCl_2 and CaCl_2 had months long water events where deliquescence/efflorescence cycling were recorded. The $\text{Ca}(\text{ClO}_4)_2$ sample had continuous water detection from August 31 until November 4, and then until the end of the experiment water detection was intermittent. The soil $\text{Ca}(\text{ClO}_4)_2$ mixture had continuous water detection from August 31 through September 24 and then had intermittent water detection until the experiment ended. In both the $\text{Ca}(\text{ClO}_4)_2$ and $\text{Ca}(\text{ClO}_4)_2$ soil mixture experiments, deliquescence/efflorescence cycles were very common, even in the periods with continuous water detection. MgSO_4 , CaSO_4 , and NaCl all had water detected for a short period of time on

June 24, 2015, lasting less than an hour. NaCl had an additional water detection event on August 9-10. The conditions for these experiments aligned with conditions recorded by the MSL, suggesting that deliquescence/efflorescence cycles could occur on Mars in similar temperature and relative humidity conditions.

4.2 Introduction

The Atacama Desert in Northern Chile is considered one of the driest places on Earth. The Yungay region of the Atacama Desert (Fig. 1; Dress et al., 2006) has experienced exceptionally dry conditions, that has remained unaltered for at least the last 15 million years and receives less than 1 mm of annual rainfall (Rundel et al., 1991; McKay et al., 2003; Clarke, 2006). The Yungay region is a harsh, altiplano environment characterized by high levels of UV radiation (Cordero et al., 2013; Cordero et al., 2018; Piacentini et al., 2003), aridity considered near the dry limit of life (Navarro-González et al., 2003), and large temperature swings (McKay et al., 2003). The region is usually devoid of flora or fauna (Davila et al. 2015) and only has a small microbial cell population at an average cell concentration of $10^3 - 10^5$ cells/g of soil (Connon et al., 2007; Crits-Christoph et al., 2013). While this environment may be a nightmare for the average organism, these conditions make it an ideal natural laboratory for studying extremophiles and their survival strategies (Wierzchos et al., 2015). This is especially true for lithic and endolithic communities that have been detected alongside halite (Rios et al., 2010; Wierzchos et al., 2006; Robinson et al., 2014; Stivaletta et al., 2012), gypsum (Wierzchos et al. 2011; Farías et al., 2014), and volcanic rocks (Meslier et al., 2018; Wierzchos et al., 2013).

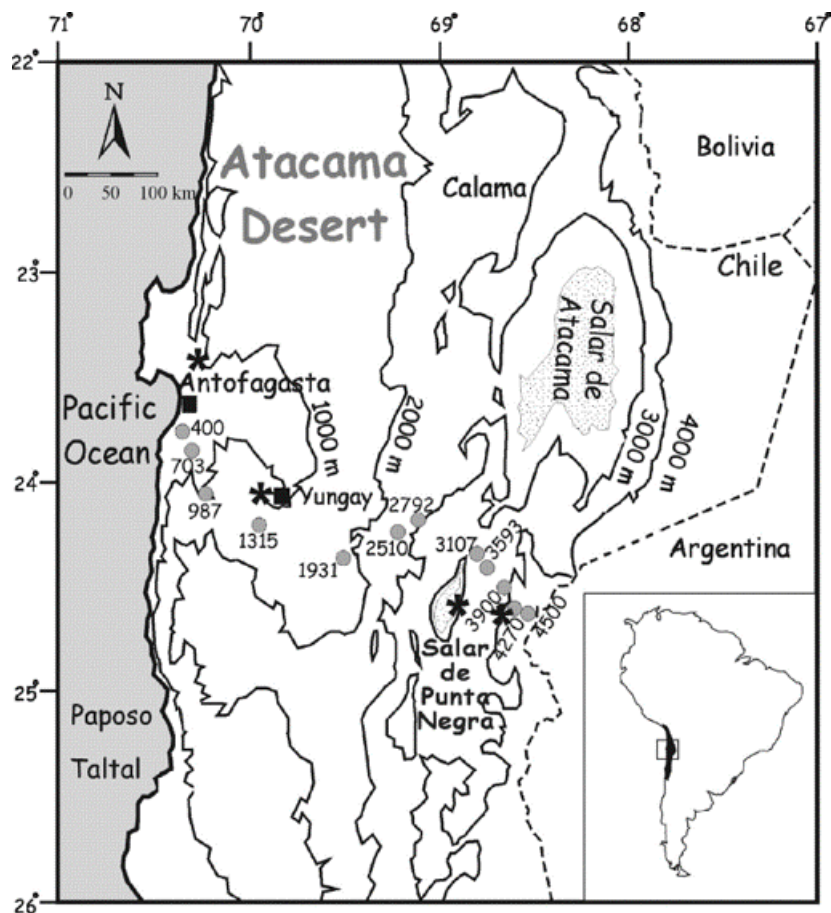


Figure 1: Topographic map of the Atacama Desert, Chile (Dress et al., 2006), showing the locations of the Yungay, the field site, and Antofagasta, where laboratory work was conducted in the Extremophile Laboratory at the Universidad de Antofagasta.

A prominent feature of the Atacama Desert are “fossil salars”, which are salts flats left behind from evaporated lake beds. The salt-crusts of these “fossil salars” are almost entirely composed of halite (sodium chloride, NaCl), which grows vertically into large nodules or pinnacles at the intersections of halite polygons that expand in the presence of transient water and collide over time (Artieda et al., 2015; Finstad et al., 2016) (Fig. 2). The source of the water for these salars is neither sub surficial or meteoric in nature, and the surrounding area only receives rare precipitation independent of seasonal and/or annual cycles, that are usually separated by periods of dryness that can be on the order of decades (Stoertz and Ericksen, 1974; McKay et al., 2003). Instead, the slow evolution of the halite nodules over time is driven by

deliquescence/efflorescence cycling as a response to daily fluctuations in atmospheric relative humidity, resulting in salar surfaces that are dynamic over timescales of years to decades (Artieda et al., 2015). Deliquescence is the transition from a solid salt crystal into an aqueous solution when exposed to a humid atmosphere. The reverse of this process is efflorescence, where an aqueous solution transitions to a solid salt crystal. Through deliquescence of halite, cyanobacteria has been shown under laboratory conditions (Davila et al., 2013), and evidence of endolithic and cryptoendolithic halite cyanobacteria colonies has been documented *in situ* (Fig. 3).



Figure 2: **A:** Field of halite nodules in Salar Grande, Atacama with H. Blann for scale. **B:** Closer view of a halite nodule. **C:** Nodules growing vertically along the borders between polygonal sections. (Photo credit: Holly Blann)

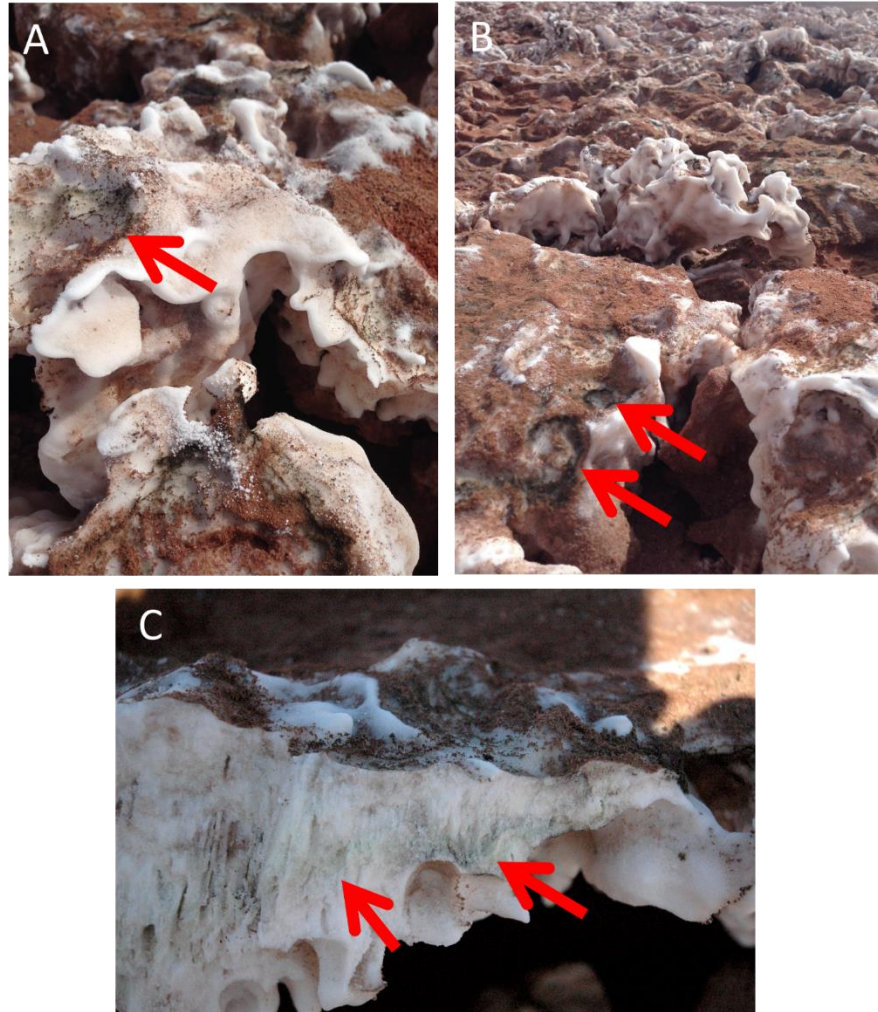


Figure 3: A and B: Images from H. Blann showing halite nodules with lithic discoloration caused by cyanobacteria. Red arrows pointing to greenish (A) and gray (B) deposits. **C:** Cross-section of a halite nodule showing endolithic discoloration caused by the presence of cyanobacteria. Red arrows pointing to bands of greenish gray. (Photo credit: Alfonso Davila)

Chloride-bearing evaporites in the driest place on Earth can sustain liquid water in quantities large enough to harbor microbial life. These may be environmental analogs for Mars as it transitioned from relatively wet to extremely dry. Chloride-bearing evaporite deposits that have been identified and mapped by Mars Odyssey THEMIS (Osterloo et al., 2008), may thus have been or are the last inhabited substrates on the planet (Rothschild, 1990; Mancinelli et al., 2004). In this study we investigate deliquescence/efflorescence cycles on Mars relevant materials under Atacama Desert conditions. We investigated six different Mars relevant salts, and a 1 wt%

calcium perchlorate 99 wt% Atacama soil mixture, which mimics a more similar composition of Mars compared to the 100 wt% salts tested. Gypsum (CaSO_4) is formed as a result of aqueous alteration, and has been detected on Mars (Langevin et al., 2005; Vaniman et al., 2018). In these experiments gypsum will serve as our control. Kieserite (MgSO_4) is another sulfate detected on Mars (Gendrin et al., 2005; Feldman et al., 2004), and is significant due to its relationship with water. Halite (NaCl) is an obvious choice of salt, due to its abundance both in the Atacama Desert and Mars (Clark and Van Hart, 1981; Möholmann and Thomsen, 2011). CaCl_2 and MgCl_2 are chloride/evaporite deposits on Mars (Davila et al., 2010; Gough et al., 2016; Möholmann and Thomsen, 2011). Calcium perchlorate ($\text{Ca}(\text{ClO}_4)_2$) and other perchlorates have been detected globally on Mars (Hecht et al., 2009; Diez et al., 2009; Kouanves et al., 2014; Ming et al., 2014; Clark and Kouanves, 2015). Due to its low eutectic temperature, calcium perchlorate is of particular interest (Nuding et al., 2014; Gough et al., 2014; Rivera-Valentín et al., 2018; Slank et al., 2022), and its implications for features such as recurring slope lineae (RSL) (Glavin et al., 2013; Ohja et al., 2015; McEwen et al., 2011; Chevrier and Rivera-Valentín, 2012; Levy, 2012; Grimm et al., 2014; Heinz et al., 2016). These detected salts are in particular interest due to their low eutectic temperatures.

4.3 Methods

To fully explore the range of the deliquescence/ efflorescence cycle, seven samples were investigated: six salts and a salt regolith mixture (Table 1). The salts are CaSO_4 , MgSO_4 , NaCl , CaCl_2 , MgCl_2 , and $\text{Ca}(\text{ClO}_4)_2$. Each of these salts was 100 wt% that salt. The last sample was 1 wt% $\text{Ca}(\text{ClO}_4)_2$ and 99 wt% Atacama soil. All samples were prepared in the Extremophile Microorganisms Laboratory at the Instituto Antofagasta of the Universidad de Antofagasta, in the Antofagasta Region, Chile. One kg of each sample was heated in an oven at 60 °C for 24

hours to remove any residual moisture, as compounds were purchased at various hydration states. The following day the compounds were added to 10 cm³ Plexiglas boxes, with holes drilled into the lids (Fig. 4).

Weight Percent (wt %) of salt	Salt Type
100	CaCl ₂
100	MgCl ₂
100	CaSO ₄
100	MgSO ₄
100	NaCl
100	Ca(ClO ₄) ₂
1	Ca(ClO ₄) ₂ mixed with 99 wt% Atacama Desert soil

Table 1: List of different salt samples and their respected weight percent concentration.

Data acquisition was performed using Hygrochron iButtons from Embedded DataSystems and a HOBO electric conductivity (EC) sensor. iButtons are small, round, Stainless Steel sensors that work wirelessly to collect temperature ($\pm 5^\circ\text{C}$) and relative humidity ($\pm 0.5\%$) at user-determined interval. Six iButtons were inserted into each sample: two at the surface, two at approximately the middle of the sample (~5 cm depth), and two at approximately 9 cm depth. Two iButtons were necessary at each depth due to the capacity of data collection and storage. The first iButton recorded data every 30 minutes for the first 6 month. The second iButton would start collecting data 6 months into the experiment and would record every 30 minutes. This insures a full years' worth of data at meaningful intervals. The HOBO EC sensor, composed of two small wires separated by a gap, was inserted to approximately the middle of the sample. It recorded voltage every 15 minutes. If the voltage was zero, the sample at the location of the

wires was dry. If the voltage recorded anything above zero, an electrical current across the wires occurred, and liquid water was present at the wire location.

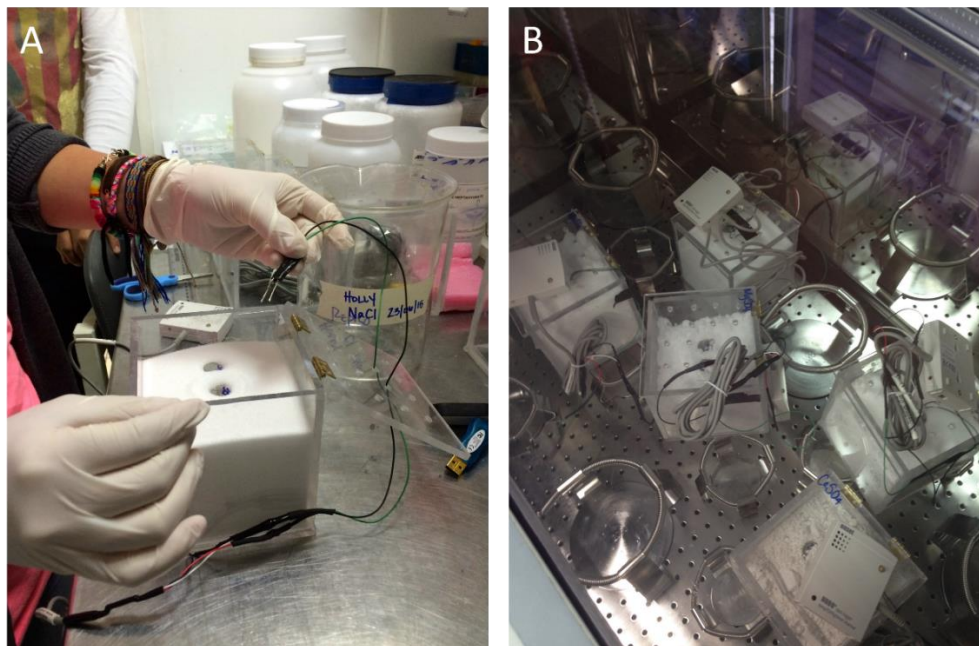


Figure 4: **A:** Assembly of sample boxes, showing two iButtons located at surface of sample and insertion of the HOBO EC sensor. **B:** Completed sample boxes in oven in preparation for deployment to the field site. (Photo credit: Holly Blann)

The samples were deployed to a flat region of Yungay ((24°05'267"S, 069°59'682"W) on June 23, 2015. All sample boxes were placed within a few meters of each other. Due to previous disturbances in the area from a nearby mining industry, small rocks were placed around the boxes and wires to ensure security and invisibility (Fig. 5). An electric conductivity reader was placed roughly in the middle of the sample site to record surface temperature and relative humidity.

In February 2016, the sample boxes were checked on. Upon arrival, multiple boxes were discovered in an unusable condition. The boxes had burst at their seams and spilled their contents onto the surrounding area (Fig. 6). The CaSO_4 , NaCl , and the $\text{Ca}(\text{ClO}_4)_2$ mixed with soil samples were still intact. Upon further investigation most of the iButtons had a buildup of rust from

prolonged exposure to the corrosive brines. The rust on the iButtons was removed, but unfortunately most of the data was unrecoverable. The only recoverable data was for the $\text{Ca}(\text{ClO}_4)_2$ mixed with the Atacama soil between September 19 and 28, 2015 at the surface and 9 cm depth.

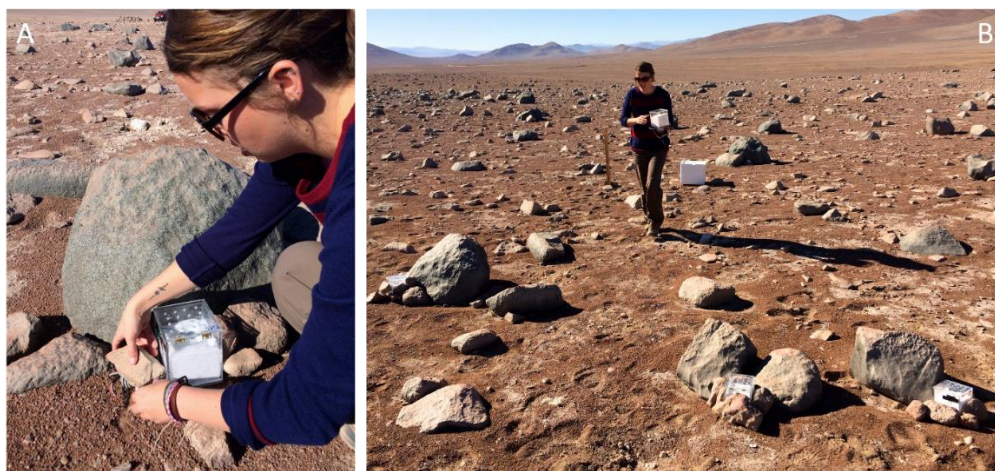


Figure 5: **A:** Installation of sample boxes in the field. Samples were “camouflaged” to the best of our ability by placing boxes up against small boulders and covering electronics with small rocks. **B:** Wide shot of the field site in Yungay showing active installation of sample box with others already set in place. (Photo credit: Holly Blann)



Figure 6: **A:** Broken, empty sample box. **B:** Broken sample box showing dampness of surrounding ground and re-precipitated salt. (Photo credit: Holly Blann)

4.4 Results

4.4.1 Results of All Samples

In all seven samples there was water detected at least once throughout the sampling time. The presence of liquid water was inferred if the voltage reading was greater than 0. For five of the samples, electric conductivity was recorded every 15 minutes from June 23, 2015, to February 2, 2016. The $\text{Ca}(\text{ClO}_4)_2$ and $\text{Ca}(\text{ClO}_4)_2$ mixed with the Atacama soil recorded from August 31, 2015 to February 2, 2016.

CaCl_2 did not demonstrate liquid formation from June 23 until November 2 (Fig. 7). From November 2 until February 1, liquid water was detected intermittently. The max voltage was 0.30647 V on November 7 at 21:15. MgCl_2 had almost the exact opposite reaction (Fig. 8). MgCl_2 had water detected from June 28 until October 8, and then the electric conductivity did not increase above 0 V for the rest of the experiment. Water was detected continuously from June 28 to September 5. The max voltage occurred during this span, on August 4 at 12:30 with a voltage of 0.92552. From September 5 to October 8, water was detected multiple times a day. There was one last jump in voltage on October 6 at 10:15 (0.88339 V) before going back to 0 V and remaining there February 1. On February 1 until recordings stopped on February 2 the electrical conductivity detected some water, with the voltage consistently being 0.00061 V.

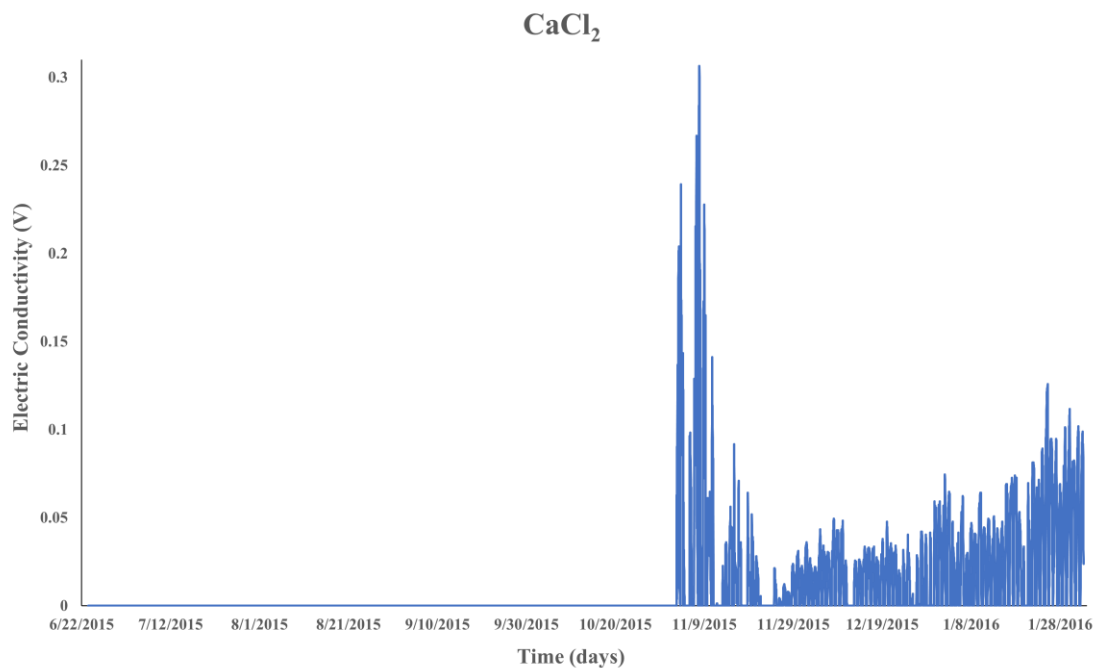


Figure 7: Electric conductivity of 100 wt% of CaCl₂ with respect to time.

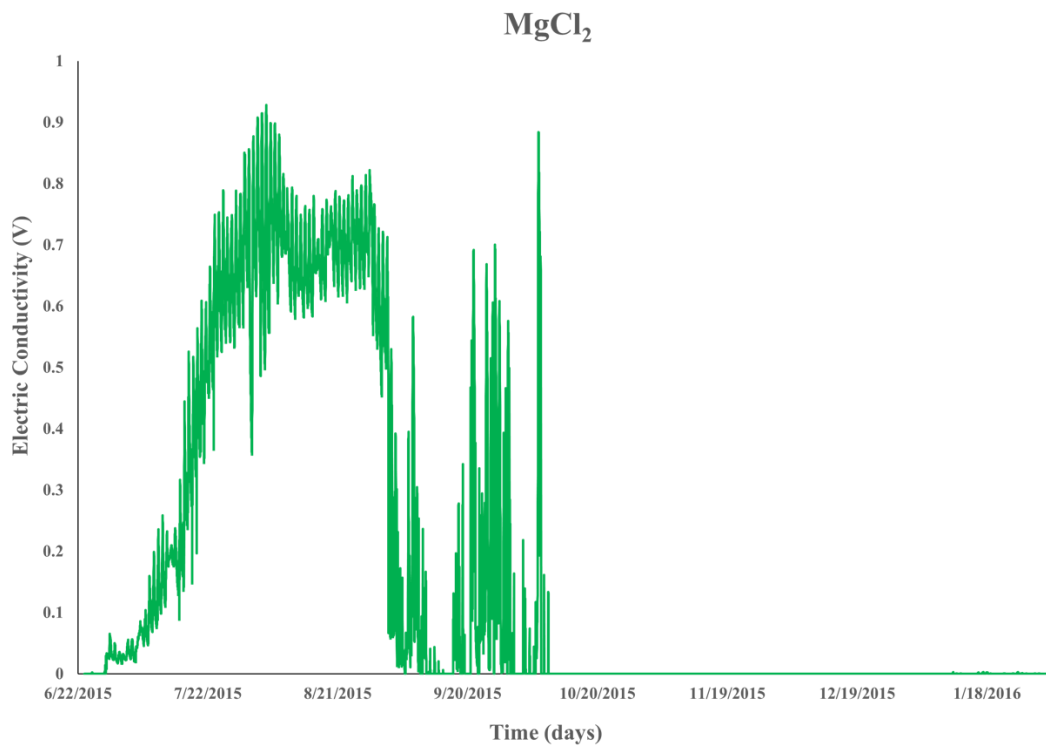


Figure 8: Electric conductivity of 100 wt% of MgCl₂ with respect to time.

The CaSO_4 sample only had one recording above 0 V (Fig. 9). Water was detected on June 24 at 11:00, with a voltage of 0.00244 V. The MgSO_4 sample only had water detected for an hour (Fig. 10). It was on the same day as the CaSO_4 water detection and about at the same time. The electric conductivity reader detected water on June 24 starting at 11:15, with a voltage of 0.04396 V. The voltage decreased every reading, and the last water detection was at 12:15 with 0.00244 V. Water was not detected again after this event for both the CaSO_4 and the MgSO_4 . The NaCl sample also had a water detection spike on June 24 at 10:45 with a voltage of 0.00427 V (Fig. 11). Unlike the other two samples that had this June 24 spike and then no water the rest of experiment, NaCl had one more water event. On August 9 at 19:45 the electric conductivity reader detected water at 0.00061 V. It dropped back down to 0 V for a half hour and then increased back up to 0.00061 V at 20:30. The reader detected water continuously until 11:00 the following morning. The maximum voltage occurred at 7:00 and recorded 0.00244 V.

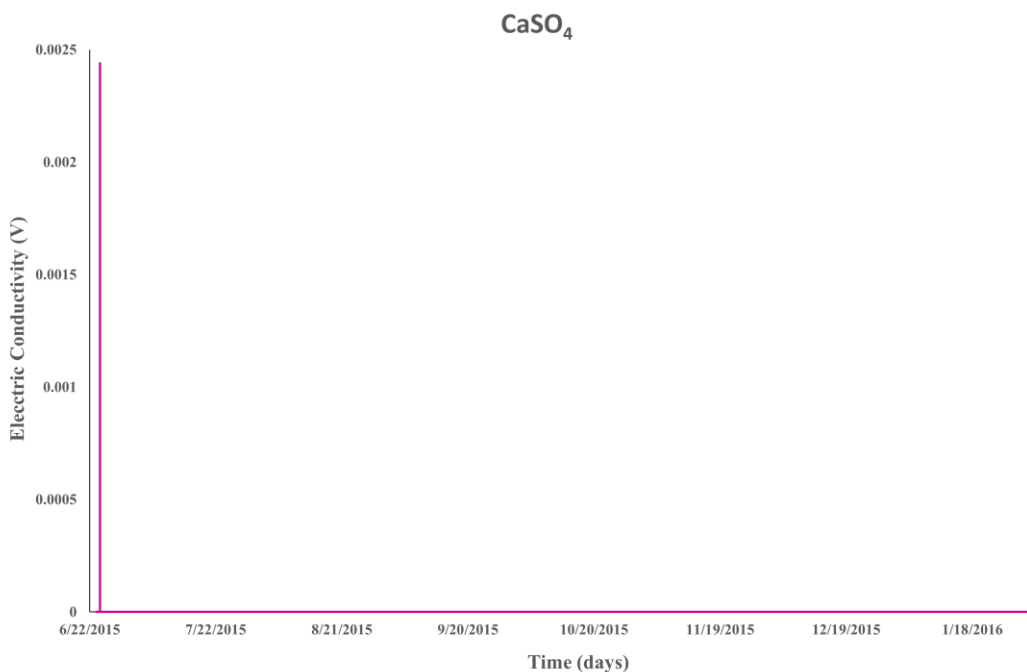


Figure 9: Electric conductivity of 100 wt% of CaSO_4 with respect to time.

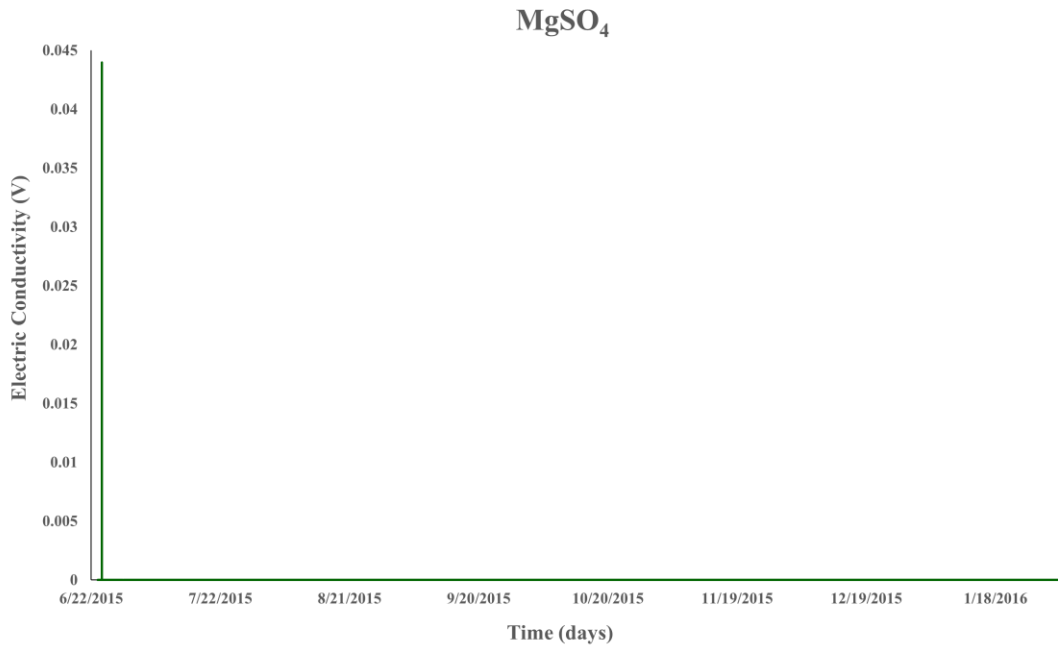


Figure 10: Electric conductivity of 100 wt% of MgSO₄ with respect to time.

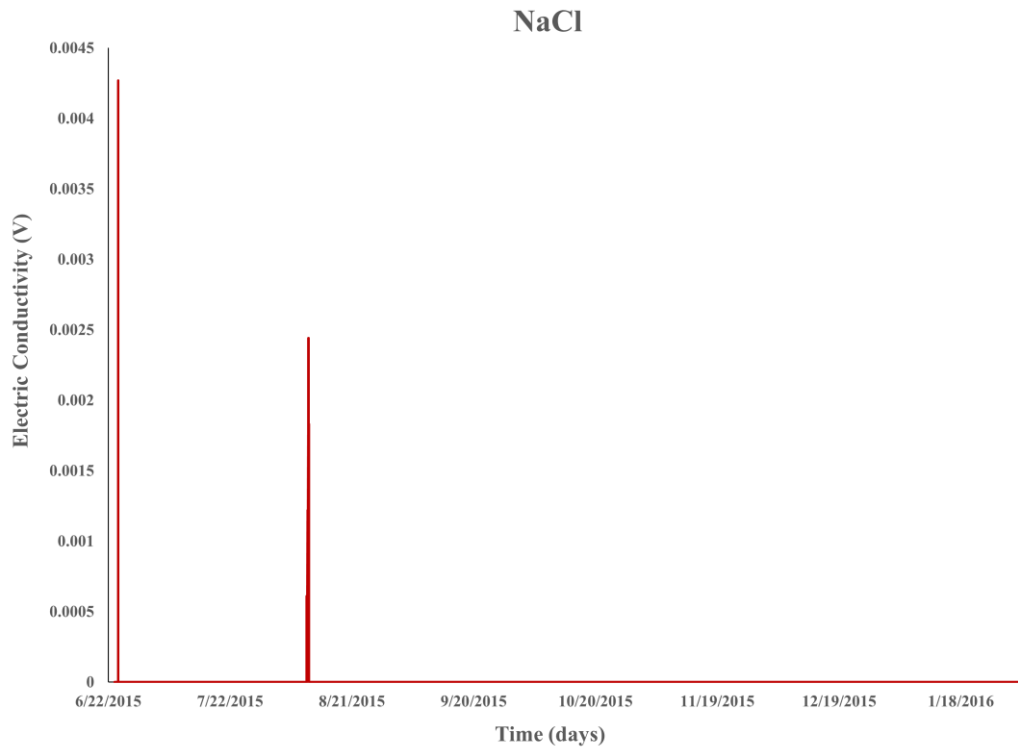


Figure 11: Electric conductivity of 100 wt% of NaCl with respect to time.

The $\text{Ca}(\text{ClO}_4)_2$ sample detected water on its first recording at 16:00 August 31 (Fig. 12). The electric conductivity reader detected water continuously until November 4. During this time period the reader recorded a maximum voltage of 23.994 V 2,683 times. After November 4, the water was intermittently detected the rest of the experiment. Most of the time the voltage was less than 0.5 V, but the reader did record another 46 instances where the maximum voltage was reached. The $\text{Ca}(\text{ClO}_4)_2$ mixed with the Atacama soil also detected water on its first reading on 16:00 August 31 (Fig. 13). The reader detected water continuously until September 24. During this time period the maximum voltage was reached at 20.489 V on September 14 21:00. For the rest of the experiment water was detected intermittently. Most of the time the voltage was less than 0.5 V, but there were four big water events between November 15 and January 16. An interesting thing to note is the continuous water detection between August 31 and September 24 line up with high water detection occurring in the $\text{Ca}(\text{ClO}_4)_2$ sample (Fig. 14), but only two of the other big water events line up with maximum water detection in the $\text{Ca}(\text{ClO}_4)_2$ sample.

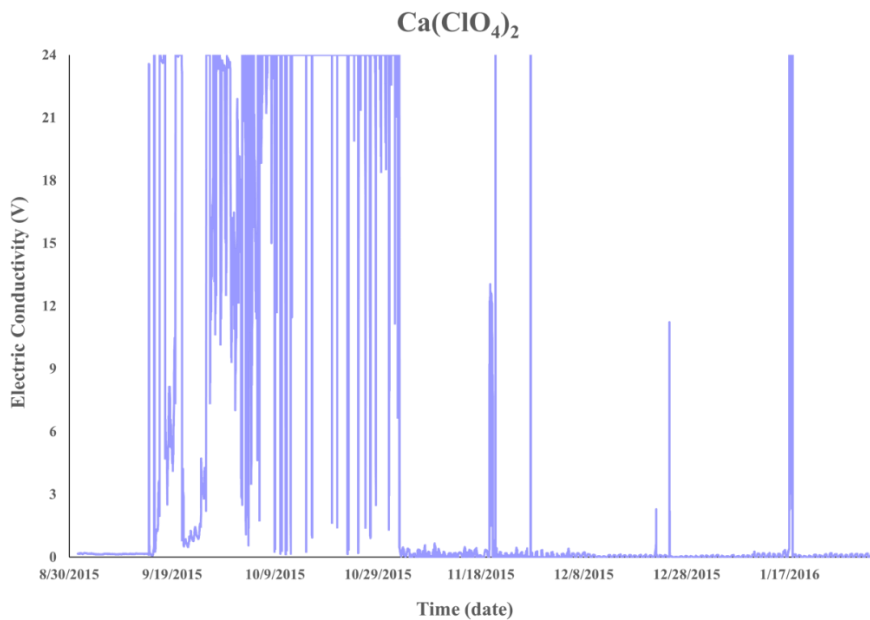


Figure 12: Electric conductivity of 100 wt% of $\text{Ca}(\text{ClO}_4)_2$ with respect to time.

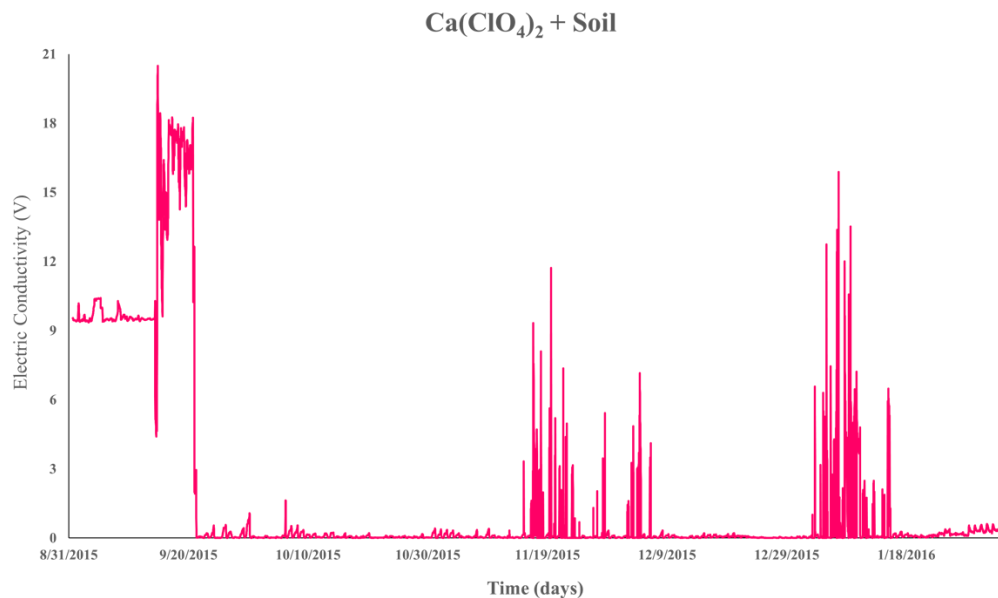


Figure 13: Electric conductivity of 1 wt% of $\text{Ca}(\text{ClO}_4)_2$ mixed with 99 wt% Atacama soil with respect to time.

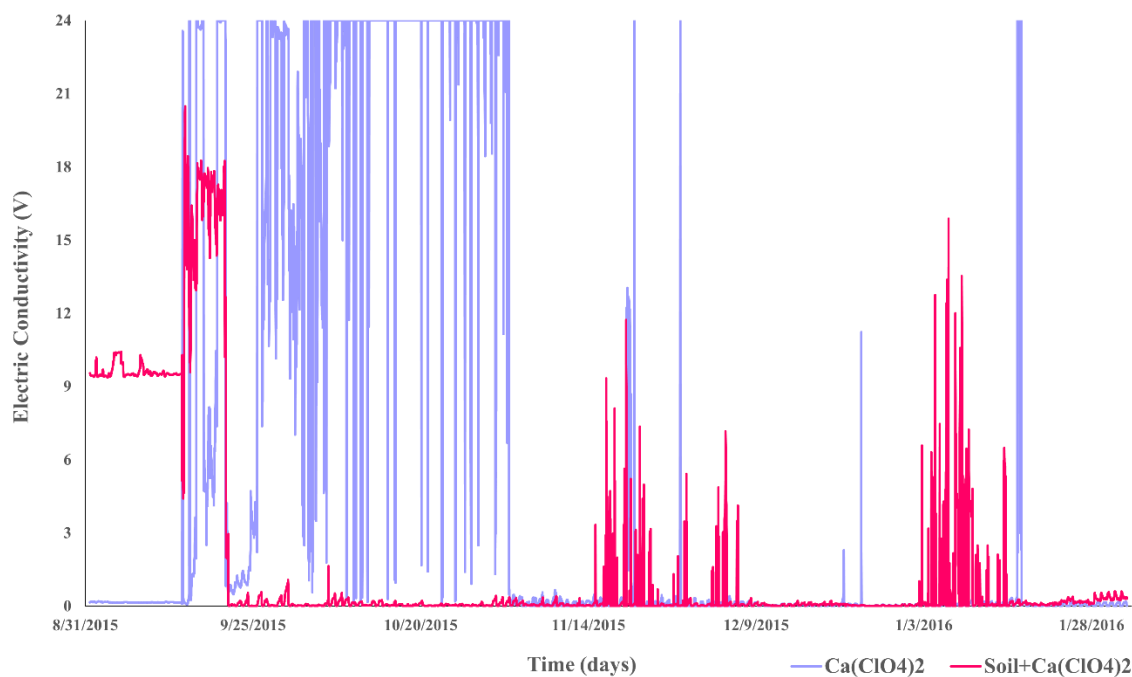


Figure 14: Electric conductivity of 100 wt% of $\text{Ca}(\text{ClO}_4)_2$ (purple) and 1 wt% of $\text{Ca}(\text{ClO}_4)_2$ mixed with 99 wt% Atacama soil (pink) with respect to time.

4.4.2 iButton Data for $\text{Ca}(\text{ClO}_4)_2$ Mixed with Atacama Desert Soil

With the salt being highly corrosive, all but two iButtons were unusable and the data from the two working iButtons was limited to a ten-day window. One of the working iButtons was at the surface of the $\text{Ca}(\text{ClO}_4)_2$ mixed with Atacama soil, and the other was from the same sample at 9cm depth. Figure 15 shows the temperature of the sample at the surface and 9cm along with the electric conductivity for the sample. Figure 16 shows the relative humidity of the sample at the surface and 9cm along with the electric conductivity for the sample. The data indicates the presence of liquid water throughout most of the time span. There was only a span of 135 minutes during September 24 and 25 where the voltage was 0 and no water was present. However, during most of the 10 day span, the voltage was low (0.5, or less), as seen in Figure 17. There are repeated intervals though where the electric conductivity peaks. This is at night when the temperature is low and relative humidity is high. This is especially true when the temperature at the surface was close to the temperature at 9cm depth (280 ± 3 K) and when the relative humidity of the 9cm depth was as high as the surface humidity (15 ± 2 %). Another thing to note is the temperature and relative humidity swings were more extreme at the surface, than at the 9cm depth, which is expected due to thermal inertia.

4.5 Discussion

4.5.1 Deliquescence/Efflorescence Cycles

The NaCl sample was the only sample that had water detected on June 24 that also had water detected on August 9 and 10. The sample started to deliquesce as the temperature decreased and the RH started to increase on August 9 (Fig. 18). Water was detected until the

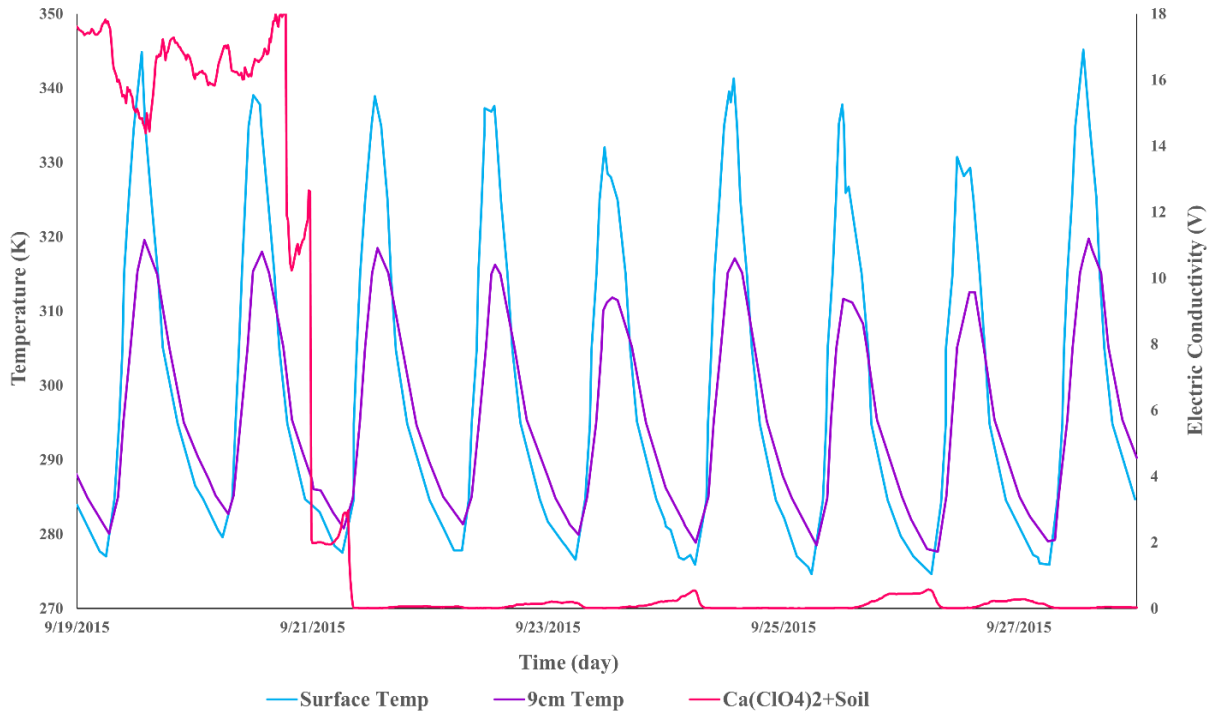


Figure 15: Temperature at the surface (blue) and at 9 cm depth (purple) and electric conductivity (pink) of 1 wt % $\text{Ca}(\text{ClO}_4)_2$ mixed with 99 wt % Atacama soil with respect to time.

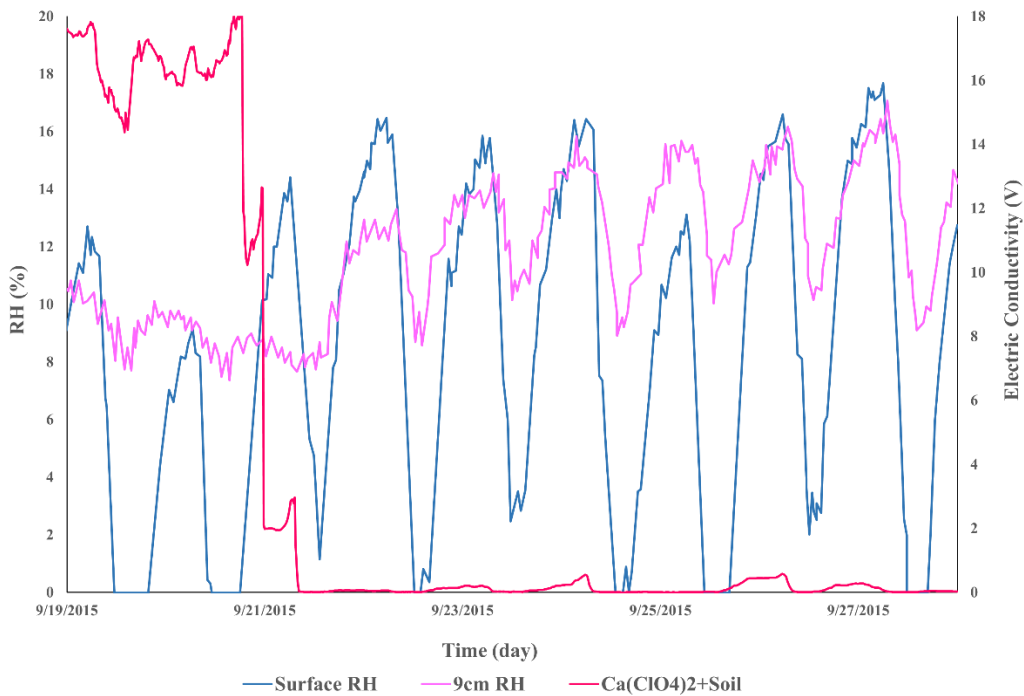


Figure 16: Relative Humidity (RH) at the surface (blue) and at 9 cm depth (purple) and electric conductivity (pink) of 1 wt % $\text{Ca}(\text{ClO}_4)_2$ mixed with 99 wt % Atacama soil with respect to time.

Maximum temperature was reached on August 10. This sharp drop in voltage also occurred at the minimum RH on August 10, when the salt effloresced back into a crystalline solid again.

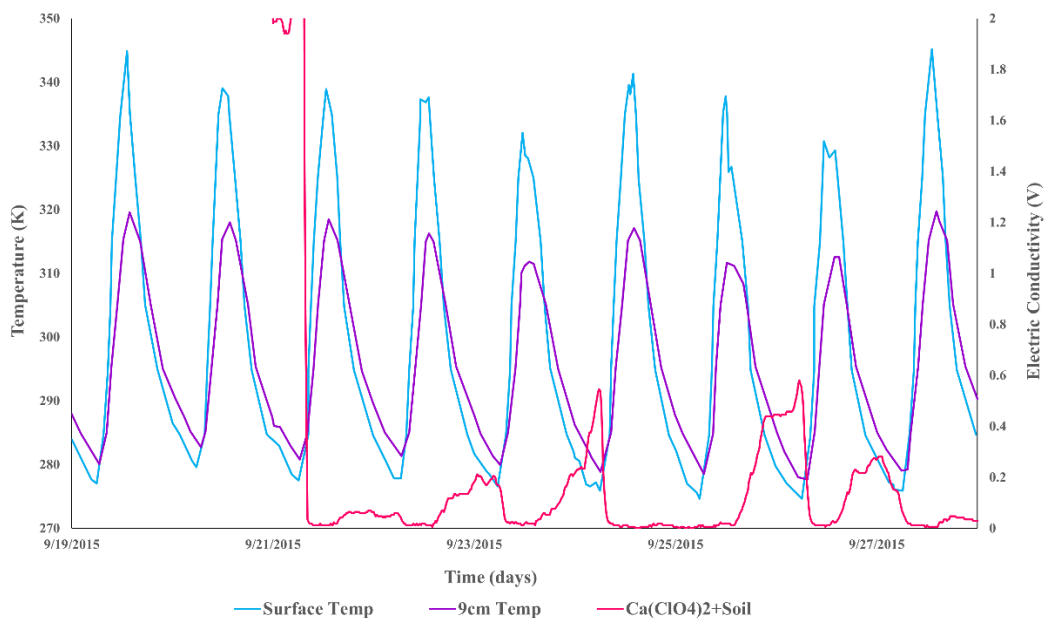


Figure 17: Zoomed in temperature at the surface (blue) and at 9 cm depth (purple) and electric conductivity (pink) of 1 wt % $\text{Ca}(\text{ClO}_4)_2$ mixed with 99 wt % Atacama soil with respect to time.

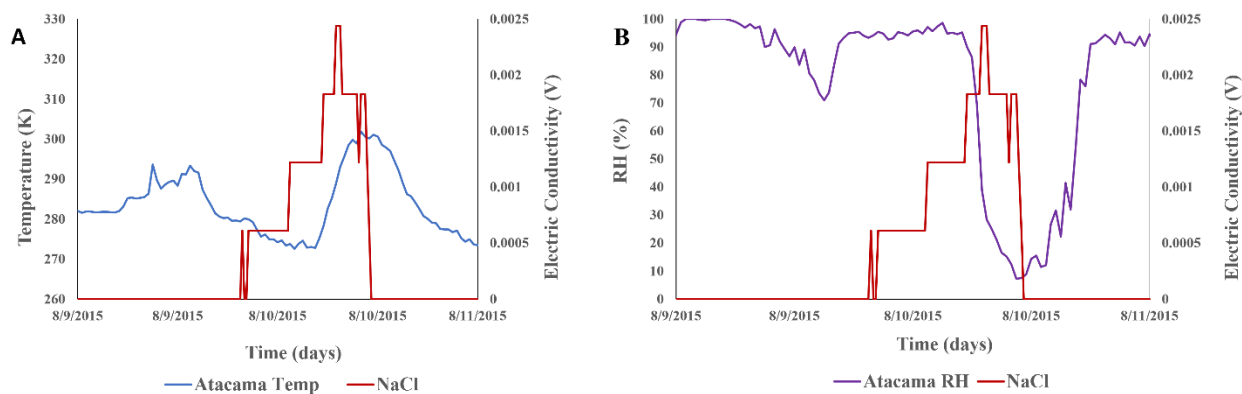


Figure 18: **A:** Temperature and electric conductivity of 100 wt % NaCl with respect to time. **B:** Relative humidity and electric conductivity of 100 wt % NaCl with respect to time.

The deliquescence/efflorescence cycle seen in NaCl occurred in quite a few of the samples, but more frequently. For the CaCl₂ this cycle happened almost daily, once the electric conductivity reader started detecting water in November (Fig. 19). Deliquescence would start to occur mid afternoon and water would be present throughout the night. Mid to late morning (~7:00- 10:00) the salts would effloresce and dry up, until the next cycle started. The MgCl₂ also saw the deliquescence/efflorescence cycle almost daily, but the cycle was not as extreme. At the beginning of the experiment MgCl₂ had continuous water detection until October 8, 2015. During this time, we still see the cycles occur, but the salt never fully dries. You see the voltage increase and decrease throughout the diurnal cycle, but the voltage never reaches zero. This means the salt never dried completely. After October 8, the voltage does reach zero quite a few times, but there are also periods of days were the salt remains continuously wet.

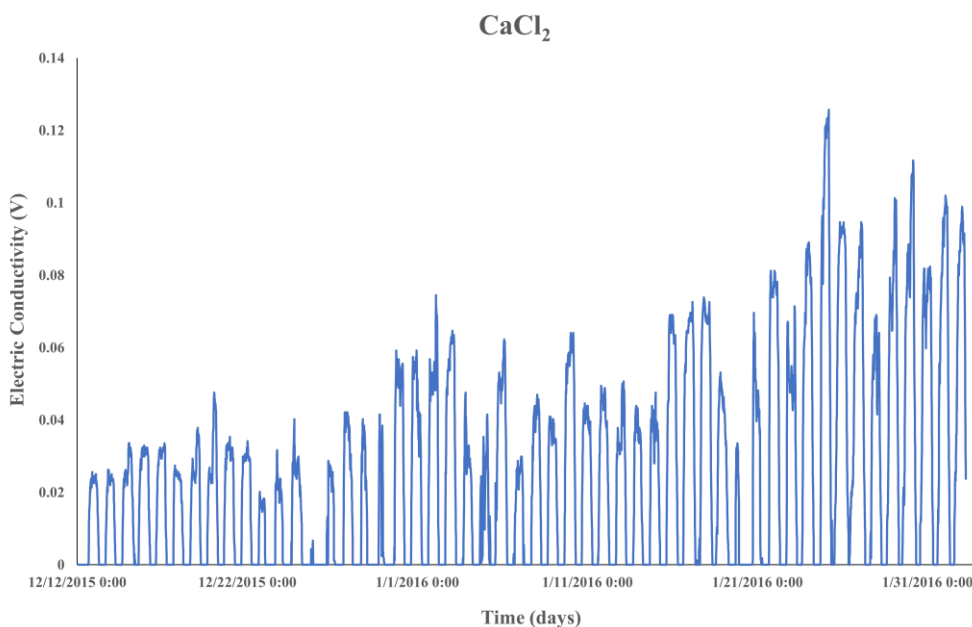


Figure 19: Electric conductivity of 100 wt% of CaCl₂ with respect to time, showing the daily deliquescence/efflorescence cycles.

An interesting thing to note about both the CaCl_2 and the MgCl_2 samples is the abrupt change in the deliquescence/efflorescence cycle. For the CaCl_2 sample, it abruptly started after no water detection for months. For the MgCl_2 the deliquescence/efflorescence cycle abruptly stops after daily detection of water. A reasoning for these changes may be the structure and integrity of the boxes the samples were held in. When the samples were checked on in February, both sample boxes were broken, and the salts spilled out onto the surrounding area. The electric conductivity wires were originally placed at about halfway in the sample. The MgCl_2 sample may have spilled, and the electric conductivity wire may have fallen in a way where the wires were no longer touching salt crystals. If this occurred, the wires would not be able to detect deliquescence or the presence of water. The CaCl_2 sample may have experienced the opposite. The electric conductivity wires may not have been detecting water ~5cm in the sample, while it was intact. However, once the salts were spilled out, the electric conductivity wires may have landed on salts. Those salts may not have been buried and therefore more exposed to the diurnal RH and temperature changes. This would allow the daily deliquescence/efflorescence cycles we saw from November until the experiments ended.

This hypothesis may also explain the $\text{Ca}(\text{ClO}_4)_2$ sample, which had very high voltage continuously at the beginning of the experiment but had a significant drop in occurrences after the voltage reached extreme levels. The sample also saw deliquescence/efflorescence cycles almost daily. However, unlike the MgCl_2 sample, the calcium perchlorate had multiple instances where the voltage was 23.994 V and within the same diurnal cycle would drop to 0 V. This means the salt was very wet for part of the day and bone dry for part of the day, completing a full deliquescence/efflorescence cycle. We still saw this cycle occur later in the experiment, but it was much less frequent. This could be because the wires had moved into a position where it was

touching the $\text{Ca}(\text{ClO}_4)_2$, but maybe not as much of the salt. As one salt crystal starts to deliquesce, briny solution is available to help assist the next salt crystal to deliquesce. The more salt the deliquesces, the more liquid water is available in the sample. This may have occurred when the electrical conductivity wires were ~5 cm in the sample. However, when the wires moved, maybe there wasn't as large of sample size around the wires, causing the extreme deliquescence/efflorescence cycles to be less frequent.

The $\text{Ca}(\text{ClO}_4)_2$ mixed with the Atacama sample survived the experiment time span. This sample experienced the range of deliquescence/efflorescence cycle types we saw with the other experiments. At the beginning the sample never dried out, so while the voltage did decrease and increase throughout the diurnal cycle, the full cycle didn't occur as the voltage never reached 0 V. There a large chunk of the experiment where the voltage would not exceed 0.5 V, but would decrease to 0 V every day. In these instances, the salts saw slight deliquescence before efflorescing and drying back up. The sample also saw some of the more extreme examples of deliquescence/efflorescence cycles where the salts would get pretty wet and then dry out within the same diurnal cycle. The sample only had 1 wt % of calcium perchlorate and it was evenly distributed throughout the Atacama soil. The soil's dampening effect of the RH and temperature may have been the reason for the variations in the deliquescence/efflorescence cycles.

The MgSO_4 and CaSO_4 samples only had that one short lived water detection event on June 24. Water was not detected the rest of the time. This may have been due to spurious detections. It could have been deliquescence did not occur near the electric conductivity wire, either only at the surface, or at depth but not near the wire. The sample box for the CaSO_4 remained intact the entire experiment whereas the MgSO_4 broke at some point throughout the time span. It is unsure if the MgSO_4 sample followed the same trend as the CaSO_4 and did not

deliquesce even after the box broke, or if the wire fell to a location where the salt was not touching them.

4.5.2 Mars Relevance

The $\text{Ca}(\text{ClO}_4)_2$ mixed with Atacama soil sample had five water detection events that approached martian conditions, out of the ten day span where temperatures and RH was available at the surface and at 9 cm depth. The water was present for ~15 hours, starting in midafternoon and continuing until midmorning. These deliquescence/efflorescence cycles occurred with temperatures reaching 280 ± 3 K and RH reaching 15 ± 2 %, at both the surface and 9 cm depth. While the voltage for these events does not exceed 0.6 V, it does prove that calcium perchlorate mixed with Atacama soil can have deliquescence/efflorescence cycles where the salt gets wet for a period of time, and then dries out, before repeating the cycle again. This suggests that calcium perchlorate mixed with regolith on Mars could also have deliquescence/efflorescence cycles, if the temperatures and RH conditions are met.

While the temperatures of the Atacama Desert are too high to be Mars relevant, the relative humidity of the sample varies between 0 and 100% humidity like Mars. However, just because the humidity range is the same for both these experiments and Mars, does not mean the amount of water available is the same. Mars typically has less than 10 Pa of water vapor available in the atmosphere. In the Atacama the water available is more around > 100 Pa (Rivera-Valentín et al, 2021).

Mars-relevant temperature and relative humidity seen here in Fig. 20 (modified from Rivera-Valentín et al, 2021) are graphed with water pressure gradients. The Phoenix Lander (magenta) and the Mars Science Laboratory (MSL) (purple) are shown as Mars-relevant data

points. The two main Mars analogs, the Antarctica Dry Valleys (light blue) and the Atacama Desert (lavender) are also shown. In the red box is where the calcium perchlorate mixed with Atacama soil experiment parameters are in the Atacama relevant zone. This experiment was the most Mars-relevant of the experiments since the salt on Mars will be mixed in the regolith. The lime green star marks the parameters conducted by Slank et al. (2022), showing Mars-relevant deliquescence laboratory experiments. Slank et al. (2022) found evidence that deliquescence could occur at 277K and 20% relative humidity when calcium perchlorate was mixed with JSC Mars-1 martian regolith simulant, at 6mbar in a Mars-like atmosphere. As seen in Figure 20, the deliquescence experiments and the Atacama field experiments barley overlap in scope. The deliquescence lab experiments do not approach martian conditions. The Atacama field experiments do overlap with the MSL conditions, at high temperature and low relative humidity. This suggests that the Atacama Desert, and some of these experiments' conditions, are a comparative analog for deliquescence on the surface and near-subsurface of Mars.

4.6 Conclusion

Six different one kilogram samples of salt (CaSO_4 , MgSO_4 , NaCl , CaCl_2 , MgCl_2 , and $\text{Ca}(\text{ClO}_4)_2$) and one sample of 1 wt% $\text{Ca}(\text{ClO}_4)_2$ mixed with 99% Atacama soil were placed in the Atacama Desert from June 23, 2015 to February 2, 2016 to record deliquescence/efflorescence cycles. Electric conductivity readers recorded voltage, temperature, and relative humidity throughout the experiment. If the voltage recorded a voltage greater than zero, water was detected.

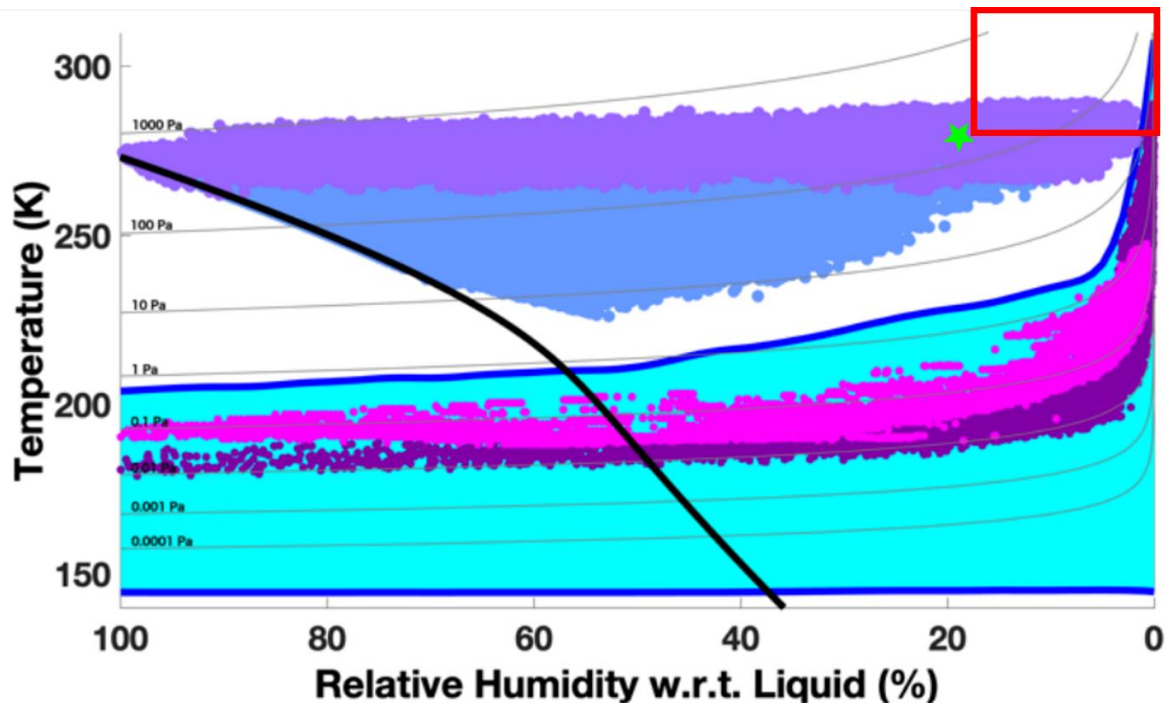


Figure 20. Temperature and relative humidity measurements from PHX (magenta) and MSL (purple) compared with the Atacama Desert (lavender) and the Antarctic Dry Valleys (light blue). For context, the possible combinations of conditions as predicted by MarsWRF is shown by the cyan space bounded in blue by the maximum and minimum combination. The light gray lines are of constant water vapor pressure and the solid black line is the ice line ($R_{\text{hice}} = 100\%$). The red box outlines the conditions for the $\text{Ca}(\text{ClO}_4)_2$ mixed with the Atacama soil. The green star is the temperature and relative humidity conditions for the deliquescence experiments conducted by Slank et al. (2022).

Three salts, MgSO_4 , CaSO_4 , and NaCl all had a water detected for a short period of time on June 24, 2015, lasting less than an hour. The NaCl sample also detected water on Aug. 9-10. MgCl_2 detected water from June 28 until October 8. CaCl_2 detected water from November 2 to February 2. For both MgCl_2 and CaCl_2 , there was no water detection outside of that range. During the water detection range, there were many deliquescence/efflorescence cycles. The $\text{Ca}(\text{ClO}_4)_2$ sample had continuous water detection from August 31 until November 4. From then until the end of the experiment water detection was intermittent. The soil $\text{Ca}(\text{ClO}_4)_2$ mixture had continuous water detection from August 31 through September 24 and then had intermittent water detection until the experiment ended. In both experiments, deliquescence/efflorescence

cycles were very common, even in the periods with continuous water detection. It is important to note, that by the end of the experiment only the CaSO_4 , NaCl , and the $\text{Ca}(\text{ClO}_4)_2$ mixed with soil samples still had intact boxes. It is unsure when the other sample boxes broke and how that affected the water detection of each sample.

The Atacama Desert has been used as a Mars analog site due to the extremely dry conditions and salt mixed into the regolith. There were conditions for these experiments that aligned with conditions recorded by the MSL. There were many recorded instances of deliquescence/efflorescence cycles throughout the samples. Since these conditions were under Mars-relevant conditions, it can be assumed that deliquescence/efflorescence cycles could occur on Mars in similar temperature and relative humidity conditions. It was suggested by Slank et al. (2022) that salt does not hinder adsorption processes, but that deliquescence and adsorption work together to uptake water at double the rate than if there was not any salt mixed into the regolith. These deliquescence/efflorescence cycles could be vital in the search for liquid water and habitability on the surface or near sub-surface of Mars.

4.7 References

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Chapter 5

Ternary Thermodynamic Modeling of Calcium and Magnesium Chloride, Chlorate, and Perchlorate Deliquescence at Mars-Relevant Temperatures

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5.1 Abstract

Habitability on Mars has been reliant on the stability of liquid water on the surface or near-surface. Brines are the best pathway for this stability, through deliquescence where a solid salt crystal transitions into an aqueous solution when exposed to a humid atmosphere. We know there are a multitude of salts on Mars and are most likely mixed in the regolith. Here we modeled deliquescence relative humidity (DRH) and the eutonic relative humidity of ternary salt mixtures. Chloride, chlorate, and perchlorate were modeled with either calcium or magnesium every 10 wt% at temperatures ranging from 273-223 K, decreasing in increments of 10 K. The first salt to precipitate out of the evaporation model is where the DRH occurs. For the calcium mixtures that salt was usually $\text{CaCl}_2 \cdot 6\text{H}_2\text{O}$, and for magnesium it was usually magnesium perchlorate, however the hydrate state did vary as temperature decreased. The last salt to precipitate out is the eutonic value. Calcium perchlorate was the predominate eutonic for the calcium mixtures, although the hydrate state did vary with temperature. This is expected due to the low eutectic temperature of calcium perchlorate (198K). The eutonic for the magnesium mixtures was $\text{Mg}(\text{ClO}_3)_2 \cdot 6\text{H}_2\text{O}$. Usually, deliquescence experiments focus on calcium and

magnesium perchlorate, but this work suggests that magnesium chlorate is the salt most likely to remain liquid on Mars.

5.2 Introduction

Water on Mars has been an interest for quite some time, due to its impact on habitability as we know it. One of the best ways water can remain liquid on the surface or near subsurface is to be mixed with salt (Brass 1980; Chevrier et al., 2009). Salts, including chlorides, chlorates, perchlorates, sulfates, and nitrates, have been detected on Mars by the Viking and Phoenix landers, MSL, and orbiters (Clark et al., 1982; Hecht et al., 2009; Boynton et al., 2009; Cull et al., 2010; Kounaves et al., 2010; Hanley et al., 2012; Kounaves et al., 2014; Lybrand et al., 2016; Stern et al., 2017; Qu et al., 2022). It is now believed that salts are ubiquitous on Mars (Diez et al., 2009; Ming et al., 2014). Perchlorate, especially calcium perchlorate, remain liquid at much colder temperatures than pure water (198 K in the case of calcium perchlorate), and therefore can be a stable option on the cold surface of Mars (Chevrier et al., 2009; Primm et al., 2017; Rivera-Valentín et al., 2020; Chevrier et al., 2020).

One pathway for brines to form is through deliquescence (Zorzano et al., 2009; Gough et al., 2011; Gough et al. 2014; Nuding et al., 2014). Deliquescence is the transition from a solid salt crystal into an aqueous solution when exposed to a humid atmosphere. Many studies have been conducted to study deliquescence of a single salt (Zorzano et al., 2009; Gough et al., 2011; Gough et al., 2014; Nuding et al., 2014; Gough et al., 2016; Nikolakakos and Whiteway, 2015; Primm et al., 2018; Nikolakakos and Whiteway, 2018; Slank et al., 2022; Fernanders et al., 2022) both experimentally and through models. However, perchlorates have been detected in close proximity to other salts, such as chlorides, chlorates (Hanley et al., 2012; Qu et al., 2022), sulfates (Kounaves et al., 2010), and nitrates (Lybrand et al., 2016; Stern et al., 2017).

Experimental work has been conducted to examine the effect of relative humidity (RH) on different binary salt mixtures (Tang and Munkelwitz, 1993; Tang, 1997; Carroll et al., 2005; Yang et al., 2006; Gough et al., 2014). Chevrier et al. (2022b) modeled binary solutions to determine if chlorates/perchlorates and chlorides/perchlorates mixtures exhibited a lower deliquescence relative humidity (DRH) and lower eutonic point.

In this study, we take a similar approach to Chevrier et al. (2022a; 2022b) to investigate ternary mixtures of chloride (Cl_2), chlorate ($(\text{ClO}_3)_2$), and perchlorate ($(\text{ClO}_4)_2$) with either a calcium or magnesium cation. The DRH (the RH at which the system is in equilibrium with the liquid phase of water) and the eutonic value (the lowest RH value where the liquid remains stable with multiple salts) were determined at numerous salt ratios. The eutonic point is the parallel to the eutectic point, but with respect to RH instead of temperature. Six temperatures were modeled, starting at 273 K and decreasing by 10 K until 223 K, allowing for a wide range of Mars-relevant temperatures to be assessed.

5.3 Methods

This study focuses on two ternary salt mixtures: $\text{CaCl}_2 / \text{Ca}(\text{ClO}_3)_2 / \text{Ca}(\text{ClO}_4)_2$ and $\text{MgCl}_2 / \text{Mg}(\text{ClO}_3)_2 / \text{Mg}(\text{ClO}_4)_2$. These salt combinations were selected because they are common on Mars, have low eutectic temperatures, are highly soluble, and are likely to have lower DRH and eutonic RH when mixed together (Chevrier et al., 2020; 2022a; 2022b).

We used Geochemist's Workbench® GWB (Bethke, 2022) software package along with the new data base, "*104etermi_jan19_A-phiPoly*", created by Chevrier et al., (2022a; 2022b) to model the Deliquescence Relative Humidity (DRH) and the relative mass ratio in wt% of the salt mixtures. Due to limits in GWB and other thermodynamic models it is not possible to directly

calculate salt equilibriums when varying RH. This has led us to the unique approach of modeling evaporation rates to determine salt saturations, instead of modeling direct deliquescence. To do this, the model starts with a liquid solution and decreases the amount of water through evaporation until the Efflorescence Relative Humidity (ERH) occurs (e.g. the salt saturates). From a thermodynamic perspective both efflorescence and deliquescence processes are identical, having the same RH at equilibrium, so that $DRH = ERH$ (Gough et al., 2011; Nuding et al., 2014; Gough et al., 2016). There have however, been some experimental simulations where the DRH is systemically higher than the ERH thanks to kinetic and nucleation effects.

At a fixed temperature, starting at 273 K and decreasing by increments of 10 K until 223 K, evaporation simulations were conducted for the ternary mixture for each relative mass ratio of chloride, chlorate, and perchlorate with either Ca or Mg as the cation. The mass ratio of ternary salts varied by increments of 10 wt% and went from 0 to 100 wt%. Temperature, salt concentrations of the cation, chloride, chlorate, and perchlorate, and numerical parameters seen in Table 1, were inputted in to GWB interface for each model run. Throughout the model the water activity of the saturating salts were recorded. The first salt to precipitate is equivalent to the DRH, and the water activity or RH when the last salt precipitates is the eutonic value.

5.4 Results

The ternary plots show concentrations of chloride, chlorate and perchlorate with either calcium or magnesium from 273 K to 223 K in 10 K increments. In each plot the colored circle depicts the first salt to precipitate out, thus giving our DRH value. In cases where a salt did not precipitate out or only had a eutonic point, a small black circle is depicted.

<i>Parameter</i>	<i>Value</i>
<i>dxplot</i>	0.0001
<i>delQ</i>	0.0001
<i>delxi</i>	1.0×10^{-5}
<i>timax</i>	8
<i>simax</i>	8
<i>Aqueous reactant</i>	-1000 g
<i>Step_increase</i>	1.0
<i>Flow-through</i>	Checked (ON)
<i>Decoupled redox couples</i>	$\text{ClO}_4^-/\text{Cl}^-$ $\text{ClO}_3^-/\text{Cl}^-$

Table 1: Geochemist's WorkBench parameter list used to run evaporation models. All other parameters and settings are the default GWB values.

The first salt to precipitate out of the calcium chloride, chlorate, perchlorate mixtures was predominantly antarcticite ($\text{CaCl}_2 \cdot 6\text{H}_2\text{O}$) at all temperatures (Fig. 1, A-F). An interesting thing to note is that ternary plots exhibit quite a few peritonic points. Peritonic points occur at intermediate triple points between two hydrates of the same salt and the liquid phase. Calcium chlorate ($\text{Ca}(\text{ClO}_3)_2$) displays multiple peritonic points as seen in Fig. 1, A-F with the varying shades of purple points representing $\text{Ca}(\text{ClO}_3)_2$, $\text{Ca}(\text{ClO}_3)_2 \cdot 2\text{H}_2\text{O}$, $\text{Ca}(\text{ClO}_3)_2 \cdot 4\text{H}_2\text{O}$, and $\text{Ca}(\text{ClO}_3)_2 \cdot 6\text{H}_2\text{O}$. Calcium chloride (CaCl_2) has a peritonic point at 253 K, having both $\text{CaCl}_2 \cdot 6\text{H}_2\text{O}$ and alpha- $\text{CaCl}_2 \cdot 4\text{H}_2\text{O}$ precipitating out (Fig. 1, C).

The eutonic point is determined by the last salt to precipitate out of solution, signifying the lowest hydrate phase. The eutonic point (if available) was recorded for each

concentration at each temperature and graphed (Fig. 2, A-F). For 273 K, the eutonic salt distribution was fairly equal between the chloride, chlorate, and perchlorate salts. However, for the rest of the temperatures the main salt eutonic was dominated by either $\text{Ca}(\text{ClO}_4)_2 \cdot 6\text{H}_2\text{O}$ or alpha- $\text{Ca}(\text{ClO}_4)_2 \cdot 4\text{H}_2\text{O}$. For temperatures 253 K and lower, there are only two spots per ternary diagram where a chloride is the last to precipitate out. As the temperature gets cooler, more chlorate precipitates last, but they are not always the same hydrate, and there are multiple chlorate hydrate states in the same ternary plot (Fig. 2, C-D). The true eutonic value of the salt mixture is the lowest of the eutonic values recorded in each ternary diagram (Table 2). The eutonic increases as temperature decreases starting at 14.24 wt% at 273 K and increasing to 43.54 wt% at 223 K.

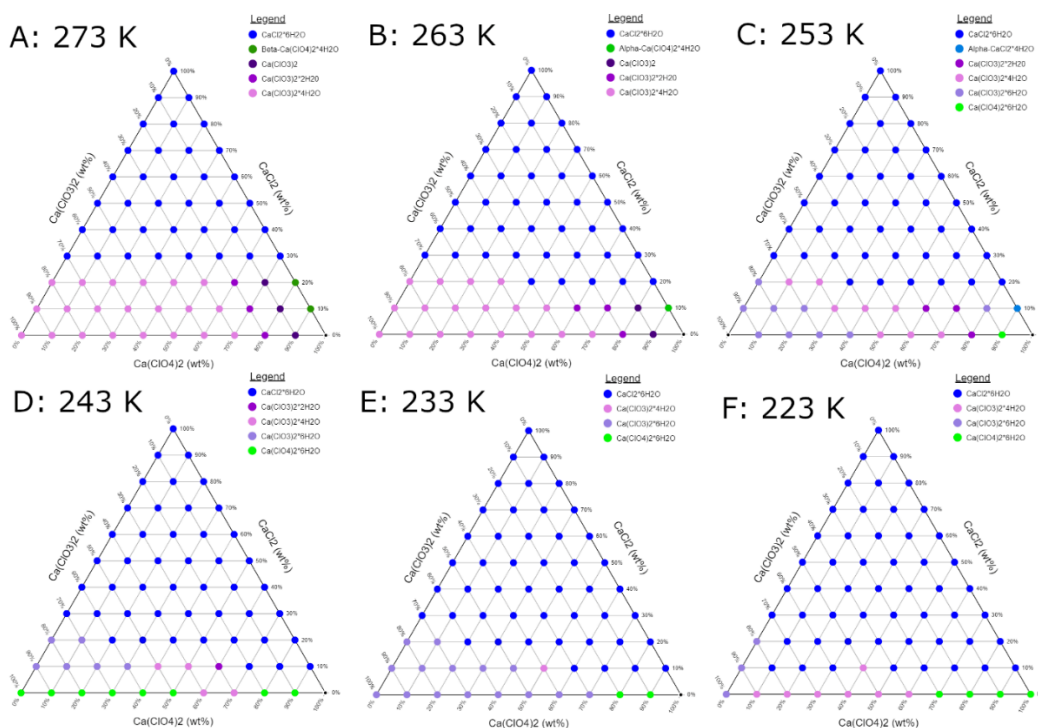


Figure 1: Ternary plots of calcium chloride, chlorate, and perchlorate. The colored dots represent the 3 salts: shades of blue for chloride, purples for chlorates, and greens for perchlorates. The shades vary depending on hydrate state. The salt displayed is the first salt to precipitate out of solution. The small black dots represent areas with no data. All concentrations vary by 10 wt% increments. A- F depict varying temperatures, decreasing by 10 K.

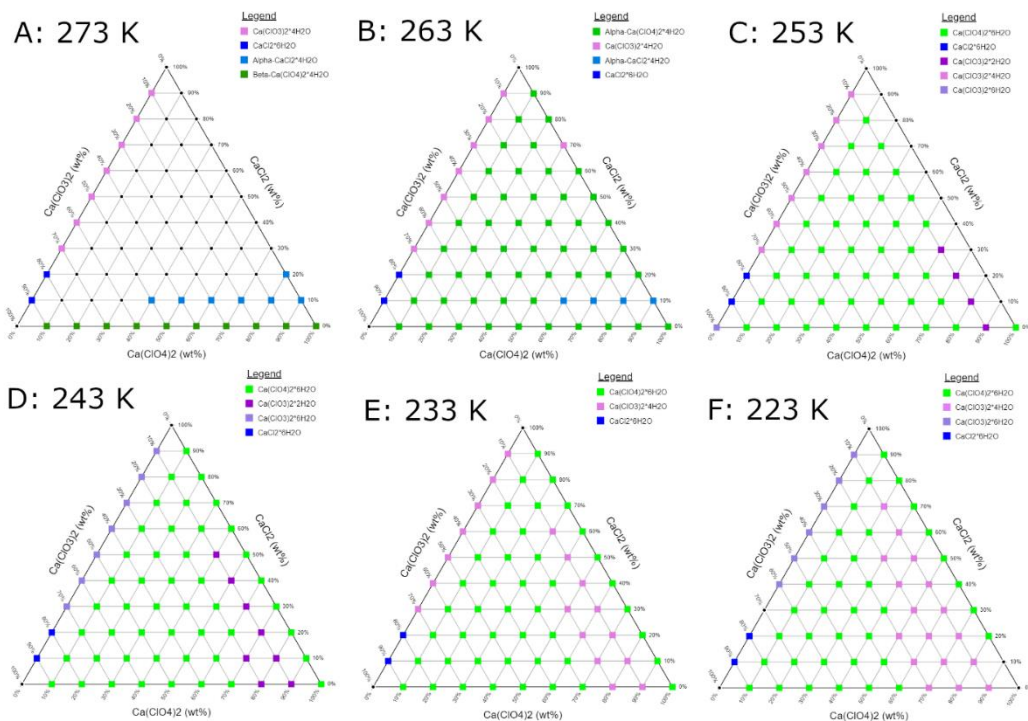


Figure 2: Ternary plots showing the last salt to precipitate out, or the eutonic salt for calcium chloride, chlorate, and perchlorate. The colored squares represent the 3 salts: shades of blue for chloride, purples for chlorates, and greens for perchlorates. The shades vary depending on hydrate state. The small black dots represent areas with no data. All concentrations vary by 10 wt% increments. A- F depict varying temperatures, decreasing by 10 K.

<i>Temperature (K)</i>	<i>Ca Eutonic (wt%)</i>	<i>Mg Eutonic (wt%)</i>
273	14.24	49.76
263	22.50	50.47
253	27.36	51.73
243	33.20	53.18
233	38.49	49.85
223	43.54	53.09

Table 2: Eutonic values of the Ca and Mg chloride, chlorate, perchlorate mixtures at all run temperatures.

Magnesium perchlorate ($\text{Mg}(\text{ClO}_4)_2$) was the predominate salt to precipitate out first for the magnesium chloride, chlorate, perchlorate mixtures (Fig. 3, A-F). Unlike the calcium salt mixtures, there was only one peritonic point in these models. However, like the calcium runs, this point was also a chloride peritonic and at 253 K, having both $\text{MgCl}_2 \cdot 8\text{H}_2\text{O}$ and $\text{MgCl}_2 \cdot 12\text{H}_2\text{O}$ (Fig. 3, C). For the rest of the simulation runs only one chloride, chlorate, and perchlorate was present. The hydrate states did change from $\text{MgCl}_2 \cdot 8\text{H}_2\text{O}$ to $\text{MgCl}_2 \cdot 12\text{H}_2\text{O}$ and from $\text{Mg}(\text{ClO}_3)_2 \cdot 4\text{H}_2\text{O}$ to $\text{Mg}(\text{ClO}_3)_2 \cdot 6\text{H}_2\text{O}$ as temperature decreased with the higher hydrated states being present at 233 and 223 K (Fig. 3, E-F).

The eutonic values for the magnesium salt mixtures (Table 2) started at higher wt% than the calcium mixtures ever reached. At 273 K the eutonic was 49.76 wt% and increased with decreasing temperature to 53.18 wt% at 243 K. The eutonic value then drops to 49.85 wt% at 223 K before increasing again to 53.09 wt% at 223 K. The eutonic point (if available) was recorded for each concentration at each temperature and graphed (Fig. 4, A-F). For all temperatures $\text{Mg}(\text{ClO}_3)_2 \cdot 6\text{H}_2\text{O}$ is the main salt to precipitate out last off the solution. For temperatures 273-233 K there is one location (0-90-10 wt%) where perchlorate is the eutonic salt, although the hydrate state changes from $\text{Mg}(\text{ClO}_4)_2 \cdot 4\text{H}_2\text{O}$ to $\text{Mg}(\text{ClO}_4)_2 \cdot 6\text{H}_2\text{O}$ at 233 K.

5.5 Discussion

While we know the value of the true eutonic, the location is also important. The location permits us to know the salt concentration that allows the lowest precipitation rate, and therefore concentration that allows for the longest and best chance of liquid water. The true eutonic point can be found where the chloride, chlorate, and perchlorate meet on the ternary diagram. Since our increments vary by 10%, we were not able to find the exact concentration, but were able to find the rough location.

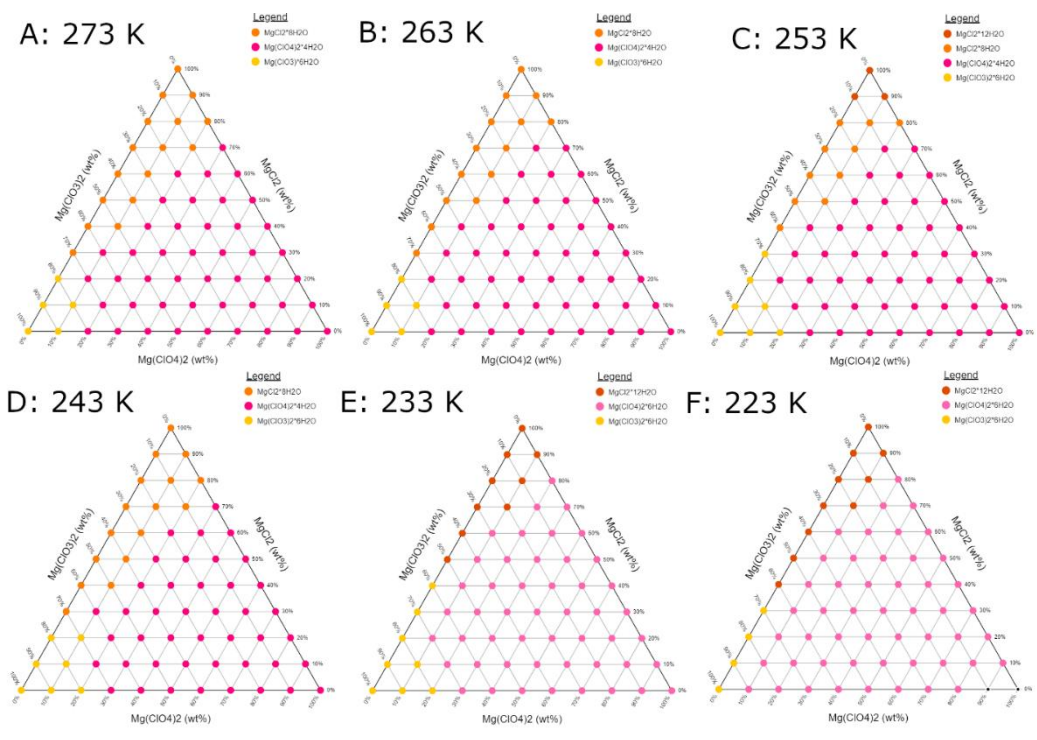


Figure 3: Ternary plots of magnesium chloride, chlorate, and perchlorate. The colored dots represent the 3 salts: shades of orange for chloride, yellow for chlorates, and pinks for perchlorates. The shades vary depending on hydrate state. The salt displayed is the first salt to precipitate out of solution. The small black dots represent areas with no data. All concentrations vary by 10 wt% increments. A- F depict varying temperatures, decreasing by 10 K.

Contour lines were drawn on each ternary diagram separating two salts. The area where the contour lines intersect is roughly where the true eutonic occurs. For the calcium chloride, chlorate, perchlorate mixtures the area where the true eutonic occurs is inside the red triangle (Fig. 5, A-F). In the warmer calcium simulations, the true eutonic occurred near higher perchlorate and low chloride concentrations (Fig. 5, A-B) but as the temperature cooled the eutectic moved more towards high perchlorate and low to medium chlorate concentrations (Fig. 5, D-F). One thing to note is the high concentration of perchlorate in all simulations, which was also seen in the eutonic ternary plot (Fig. 2). Calcium perchlorate has a very low eutectic temperature of 198 K and has the lowest eutectic of all the Mars-relevant salts, so it makes sense that perchlorate would be the dominate salt in these concentrations.

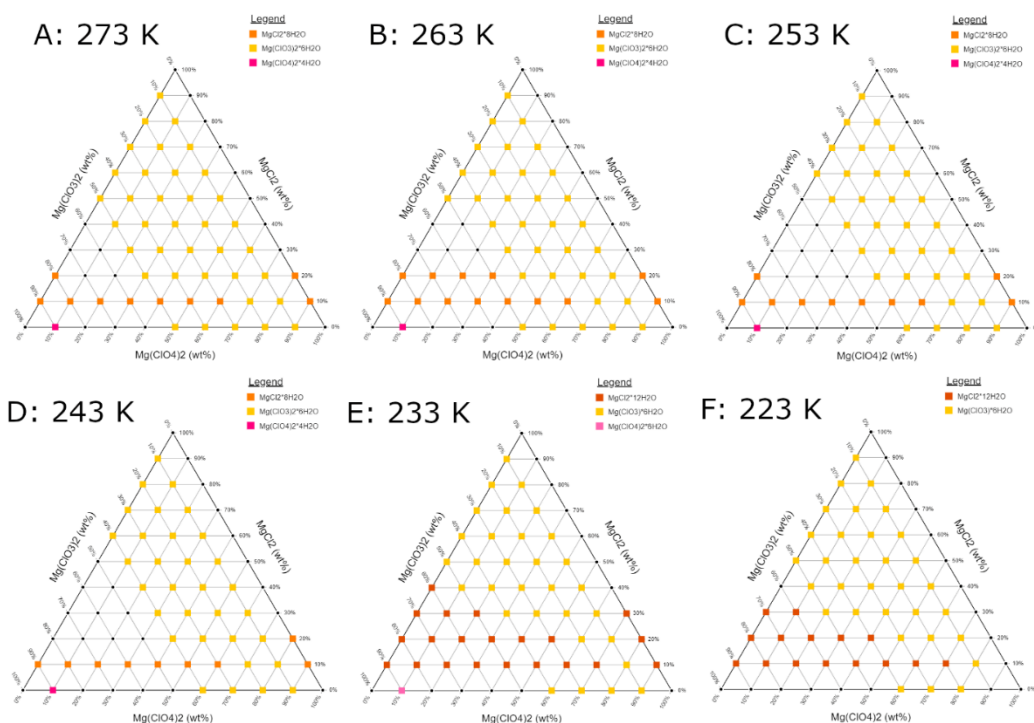


Figure 4: Ternary plots showing the last salt to precipitate out, or the eutonic salt for magnesium chloride, chlorate, and perchlorate. The colored squares represent the 3 salts: shades of orange for chloride, yellow for chlorates, and pinks for perchlorates. The shades vary depending on hydrate state. The small black dots represent areas with no data. All concentrations vary by 10 wt% increments. A- F depict varying temperatures, decreasing by 10 K.

The magnesium chloride, chlorate, perchlorate mixtures did not have the same concentrations as the calcium salts for the true eutonics. In the case for the magnesium salts (Fig. 6, A-F), the true eutonic occurred between 50 and 80 wt% of $\text{Mg}(\text{ClO}_3)_2$ and low MgCl_2 concentrations. Magnesium perchlorate is one of the most studied salts when it comes to deliquescence (Gough et al., 2011; Nuding et al., 2014; Gough et al., 2014; Nikolakakos and Whiteway, 2015; Primm et al., 2017; Nikolakakos and Whiteway, 2018; Primm et al., 2018; Rivera-Valentín et al., 2020) on Mars. However, these results suggest that high magnesium chlorate salts might remain liquid longer on Mars.

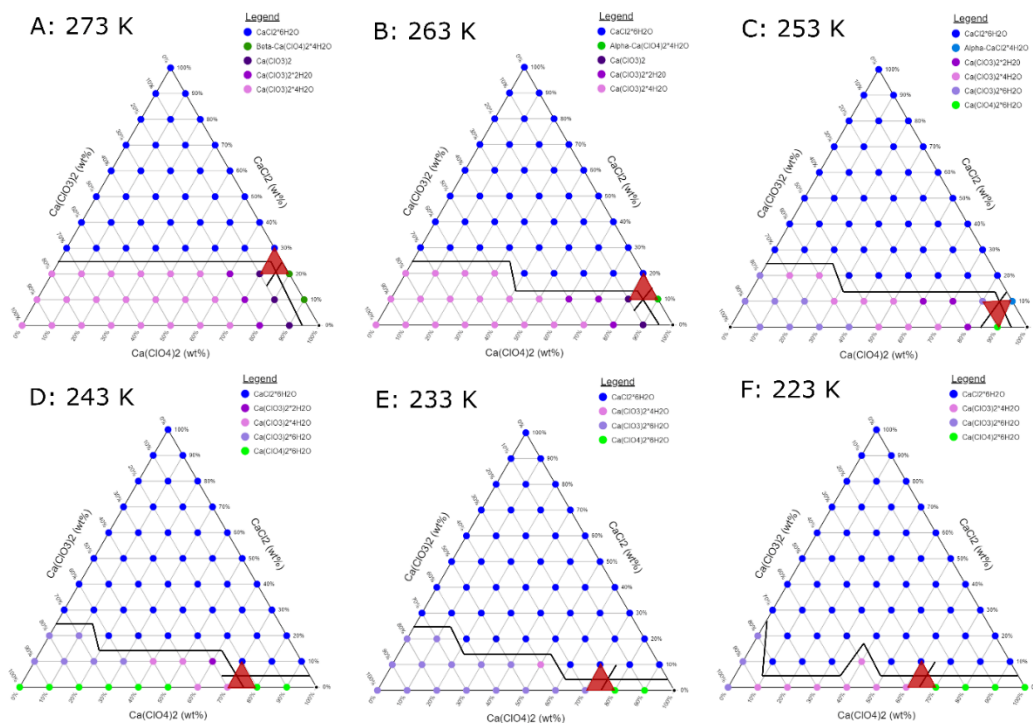


Figure 5: Ternary plots of calcium chloride, chlorate, and perchlorate. The salt displayed is the first salt to precipitate out of solution. Contour lines were drawn separating two different salts. The area where the contour lines intersect is approximately where the true eutonic would be located. That area is represented by the red triangle. The colored dots represent the 3 salts: shades of blue for chloride, purples for chlorates, and greens for perchlorates. The shades vary depending on hydrate state. The small black dots represent areas with no data. All concentrations vary by 10 wt% increments. A- F depict varying temperatures, decreasing by 10 K.

5.6 Conclusion

We know that salts are ubiquitous on the surface of Mars (Diez et al., 2009; Ming et al., 2014) and that they are most likely not single salt types due to mixing. Knowing the best salt combination at different Mars-relevant temperatures for some of the most common salts allows for a more in-depth look at the possibility of liquid water. We ran evaporation simulation models to determine the DRH and eutonic relative humidity values for ternary salt mixtures consisting of chloride, chlorate, and perchlorate with either calcium or magnesium as the cation. The concentrations were varied in increments of 10 wt%. Six simulations were run per cation,

starting at 273 K and decreasing by 10 K each simulation. From there we plotted the salt that was the first to precipitate out of the solution (the DRH value) and the last to precipitate out (the eutonic value). We were also able to determine the approximate concentration for the true eutonic by creating contour maps on the ternary DRH plots. Salts with high values of calcium perchlorate or magnesium chlorate were the candidates to remain liquid the longest.

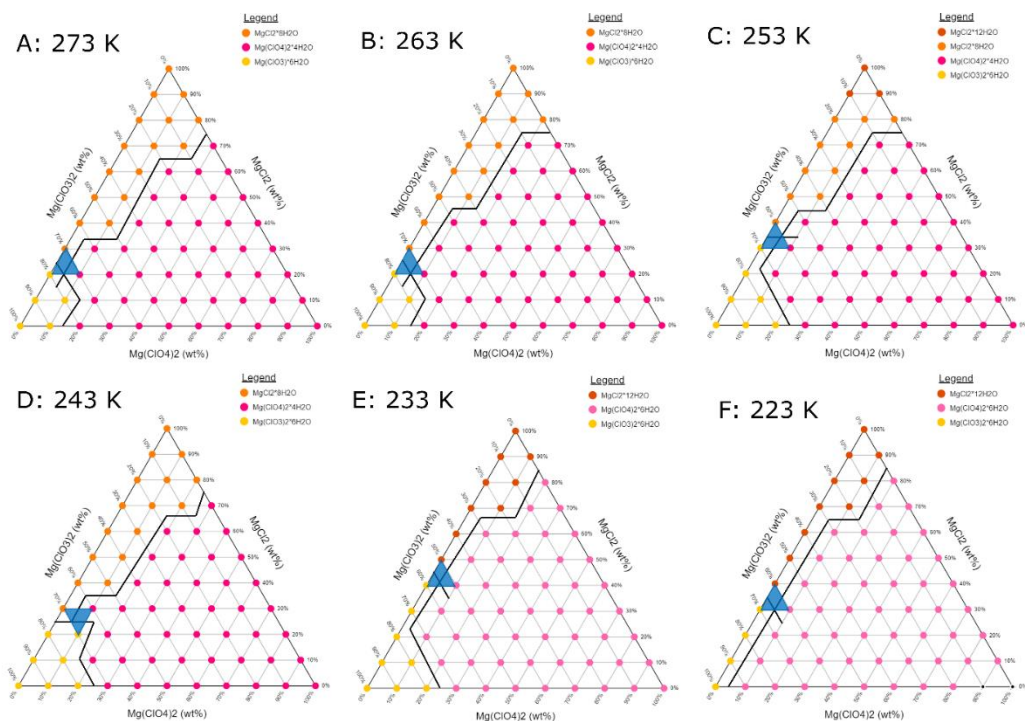


Figure 6: Ternary plots of magnesium chloride, chlorate, and perchlorate. The salt displayed is the first salt to precipitate out of solution. Contour lines were drawn separating two different salts. The area where the contour lines intersect is approximately where the true eutonic would be located. That area is represented by the blue triangle. The colored dots represent the 3 salts: shades of orange for chloride, yellow for chlorates, and pinks for perchlorates. The shades vary depending on hydrate state. The small black dots represent areas with no data. All concentrations vary by 10 wt% increments. A- F depict varying temperatures, decreasing by 10 K.

Studying these salt mixtures expands the knowledge of which salts would be the most likely candidates to allow liquid water to remain stable on the martian surface. Calcium and

magnesium perchlorate are highly studied salts when it comes to deliquescence due to their eutectic temperatures, but magnesium chlorates are also a strong candidate for liquid water. While this study explored these ternary mixtures with calcium and magnesium, there are other salts to still be examined, like sodium, sulfates, and nitrates that could lead to a mixture that would allow liquid water to remain stable on Mars.

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Chapter 6

Conclusions

The overarching focus of this dissertation was to better understand salts found on Mars and how they interact with water to form brine solutions through deliquescence. This was achieved by conducting experiments in a Mars simulation chamber, field experiments conducted in a Mars analog site, and evaporation modeling. While the techniques varied chapter to chapter, the focus remained on deliquescence.

6.1 Stability and Deliquescence of Water

Salts have been detected on the surface of Mars by multiple missions, including Viking, Phoenix, and Curiosity, and are now considered to be ubiquitous on Mars (Clark et al., 1982; Hecht et al., 2009; Kouanves et al., 2014; Ming et al., 2014; Diez et al., 2009). Salts are key to allowing liquid water to be stable on the surface, due to their ability to remain liquid at cooler temperatures. However, an investigation of these salt chemical species is warranted to justify their behavior and evolution on the martian surface. One of the best pathways for liquid brine solution formation is through deliquescence (Zorzano et al., 2009; Gough et al., 2011; 2014; Nuding et al., 2014). Deliquescence is the transition from a solid crystalline salt into an aqueous solution when exposed to a humid atmosphere. This research has shown that deliquescence is a strong option for liquid water on Mars. There are many types of salts found on the surface and near subsurface of Mars. Of those salts, calcium perchlorate is a strong candidate for liquid brine formation. This was demonstrated by its ability to deliquesce in the Mars simulation experiments in Chapter 2, the large water detection events with both the pure salt, and salt Atacama soil mixture in Chapter 4, and being the last salt to precipitate out in the calcium model runs in

Chapter 5. All of these results mixed with the fact that calcium perchlorate has a low eutectic point of 198 K, suggests it could be an ideal brine. While calcium perchlorate is an important salt to study, other salts also have potential. Magnesium chlorate was the last salt to precipitate out in the magnesium model runs in Chapter 5 and can be found on Mars.

While magnesium perchlorate is one of the most studied salts on Mars, magnesium chlorate should be further examined (Gough et al., 2011; Nuding et al., 2014; Gough et al., 2014; Nikolakakos and Whiteway, 2015; Primm et al., 2017; Nikolakakos and Whiteway, 2018; Primm et al., 2018; Rivera-Valentín et al., 2020). It would be worth exploring how both magnesium chlorate and magnesium perchlorate would react in the chamber and out in the Atacama Desert. There are also a lot of other variables that should be tested in the chamber besides different salts. Some additional experiments needed to fully understand the deliquescence process include lower temperatures and higher humidities. Relative humidity on Mars varies from 0 to 100% throughout a Sol. To fully understand this process, a realistic simulation is needed. Also, different regoliths and salts need to be tested. While JSC Mars-1 was used in this research, this simulant is not analogous to every location on Mars. Rerunning the experiments in this work, and the ones suggested here, with MGS (Mars Global Simulant) and MMS (Mojave Mars Simulant) might provide an interesting result, especially with mass increase due to the varying regolith porosities. One would suspect that a regolith with a higher porosity would uptake more water, leaving the salt to compete with the limited water availability, and therefore having limited deliquescence.

Moreover, other salts should be explored, including sulfates and nitrates, in the chamber, field, and models to fully explore the best options for liquid water on Mars. We know there is an abundance of salts on the surface of Mars. These salts should be examined on their own accord

first, to see how they individually deliquesce and react to water. During these experiments they should be 0 - 5 wt% of the sample, mixed with a regolith (or Atacama soil, depending on test location). Since the salts are not homogeneous on Mars, the next step is to mix them in varying concentrations with other salts to see a more realistic simulation of Mars. Chapter 5 started this process by looking at chlorides, chlorates, and perchlorates of calcium and magnesium, but there is still so much more to analyze, and not just in the model. It would be intriguing to see how these salt mixtures would react in the Mars simulation chamber or in the Atacama Desert. Would the salts and regolith work together to absorb more water? Would the salts absorb the same amount of water? Would a salt type dominate and deliquesce first, leaving the other salts stalled or to follow more slowly after? How would different porosities of the regolith or soil affect this water competition? In Chapter 2, the results showed that adsorption and deliquescence worked together to take up water, doubling the amount of water when salt was present (Slank et al., 2022). Would that amount triple or quadruple if it was a multi brine sample or would it slow the water uptake as they compete? No matter the outcome, a more in-depth look is needed to entirely understand how salts interact with the water cycle on Mars.

6.2 Hydration Cycles on Mars

While deliquescence is a sound pathway for brine formation, it is not a catch-all. The data we have on Mars shows that the water cycle on Mars is complicated, especially near the surface. There are many factors that can affect it, including but not limited to location, temperature, humidity, regolith type, how much salt is present, and what type of salt. Different processes can also influence the water cycle, like adsorption (Zent et al., 1993; Chevrier et al., 2008; Rivera-Valentín & Chevrier, 2015; Savijärvi et al., 2020) and solid-state hydration (Vaniman et al.,

2004; Gough et al., 2020). While deliquescence is promising, these factors need to be studied alongside deliquescence to completely explore the water cycle on Mars.

Even though the humidity on Mars ranges between 0 and 100% throughout a Sol there is limited water vapor in the atmospheric water column. The atmospheric column varies on season and location, but on average is between 3 and 20 precipitable μm (Owen and Mason, 1969; Smith, 2004; Smith et al., 2006; Harri et al., 2014). However, as you get near the poles that increases up to 70 precipitable μm directly above the northern polar cap (Smith, 2004; Harri et al., 2014). While the amount of water increases as you get closer to the poles, the temperature decreases. This causes difficulties for liquid water. This is one of the reasons calcium perchlorate is an ideal salt, since it can remain a brine up to 198 K. That said, the work in Chapter 5, and previous work (Chevrier et al., 2022a; 2022b), demonstrates that multi brine solutions have a lower eutonic point than a single salt. It is reasonable to assume that a multi brine solution would also lead to stable liquid water at the surface closer to the poles, where more water vapor is readily available. This leads back to the importance of studying multiple salts mixed into a regolith or terrestrial soil sample, to determine the best salt combinations.

As demonstrated in Chapter 4, water was detected when the temperatures were cooler and humidity was higher. Water is detected mid afternoon as the temperature starts to decrease, remained present throughout the night, and started to dry up mid-morning. Little work has been conducted experimentally to watch salts deliquesce and effloresce under Mars-like conditions (Nuding et al., 2014). This research is crucial for understanding the deliquescence and efflorescence processes on Mars. Testing this wetting and drying throughout a Sol, especially in simulated polar conditions (60° and higher), would provide insight into liquid brine formation

and how long the liquid could remain on the surface. Pairing these conditions and experiments with the multi brine experiments would lead to the most promising and realistic results possible.

6.3 Implications for Habitability

This work can and will impact future modeling, both climate and habitability, and as well as aide in preparing for exploration of Mars. The proposed work also helped address a key question from Vision and Voyages for Planetary Science in the Decade 2013-2022. By investigating liquid formation on present-day Mars, the proposed work assisted in answering a priority question, which is “Beyond Earth, are there contemporary habitats elsewhere in the solar system with necessary conditions, organic matter, water, energy, and nutrients to sustain life, and do organisms live there now?”. The experiments and modeling conducted in this dissertation showed different conditions and parameters needed for deliquescence to occur. This includes temperature, relative humidity, salt types, and salt concentrations. These parameters helped facilitate the search for potential habitat conditions on Mars that would allow habitability based on the necessary water condition portion of the question.

In addition, this research also addressed a key question from Vision and Voyages for Planetary Science in the Decade 2023-2032: “Characterize conditions on known and candidate modern habitable environments in the solar system, e.g. on Mars, Enceladus, Europa, and other bodies by measuring water chemistry, mineralogy, ice composition, gases, and organic molecules to assess whether conditions exist that could support life”. By investigating liquid water formation on present-day Mars, this dissertation laid out certain environments through temperature, relative humidity, and salt concentrations. Knowing these conditions allows others to further explore similar environments on Mars, expanding our knowledge of liquid water and the search for habitable locations.

This research focused on better understanding the salts found on Mars, especially calcium perchlorate. It was determined that deliquescence is a solid pathway for liquid water formation on the surface of Mars and that multiple salt types could lead to liquid water. It was demonstrated that salts found on Mars can deliquesce and effloresce on a diurnal cycle at a Mars analog field site. Since similar conditions have been documented on Mars, it is a safe assumption to say these deliquescence efflorescence cycles could occur on the martian surface. It has also been shown that multi brine solutions can remain liquid at lower eutonic points than just a single salt, confirming more investigation is needed to explore the best salt combination for stable brines. Salt plays a vital role in the stability of liquid water on Mars. That liquid water, in turn, plays a large role in habitability and if Mars could sustain life in the brine solution. By studying what conditions are ideal for deliquescence to occur and the deliquescence/efflorescence cycle this work aided in answering these key questions.

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Appendix

The data found below is the raw data collected in the chamber. The data starts when the lid is closed, and the vacuum pump is turned on. If you have questions, or would like more information on the data, including the readme files, please email rslank9@gmail.com.

7.1 Deliquescence and Control Experimental Data

Deli_exp_1

Experiment type: Deliquescence experiment. The regolith type is JSC Mars-1 in this experiment, with a thickness of 2 cm. The initial weight was 206.05 g. Calcium perchlorate was added at 10.21 wt% increasing the mass to 227.10 g. The humidity buffer was LiCl which has a RH of 11.31 at 0 degrees Celsius. Temperature around the sample was as close to -20 degrees Celsius as possible, cooled with liquid nitrogen and chiller system.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= humidity buffer 3= atmosphere 4= sample

Mass Min.	Mass	RH Min.	Ch02	Ch03	Ch04	T Min.	Ch01	Ch02	Ch03	Ch04
0	229.86	0	3.591973	7.030405	17.95539	0	-5.2	-18.89	-15.98	-15.3
2	228.73	1	3.35786	10.08784	18.6803	1	0.01	-16.83	-15.61	-15.02
4	227.75	2	3.157191	13.14527	19.36803	2	-10.72	-17.34	-16.23	-15.86
6	227.35	3	2.755853	12.84122	19.94424	3	-8.26	-17.01	-16.92	-15.9
8	227.26	4	2.103679	10.98311	20.55762	4	-8.74	-18.38	-17.06	-15.44
10	227.29	5	1.535117	7.418919	21.52416	5	-9.58	-20.29	-17.8	-15.39
12	227.37	6	0.866221	2.841216	22.49071	6	-9.71	-20.5	-18.33	-15.21
14	227.42	7	0.347826	1.280405	23.12268	7	-11.2	-20.41	-18.02	-15.07
16	227.43	8	0.782609	4.118243	23.43866	8	-11.52	-20.83	-17.39	-14.94
18	227.43	9	2.204013	6.212838	23.69888	9	-11.69	-20.7	-16.83	-14.83
20	227.41	10	4.026756	8.037162	23.77323	10	-11.1	-20.78	-16.44	-14.73
22	227.38	11	5.598662	9.557432	23.71747	11	-9.3	-20.95	-16.28	-14.68
24	227.40	12	6.986622	11.0777	23.60595	12	-8.21	-21.02	-16.29	-14.65
26	227.41	13	8.073579	12.5473	23.49442	13	-7.74	-21.01	-16.39	-14.61
28	227.40	14	8.909699	13.66216	23.42007	14	-6.91	-21.06	-16.54	-14.58
30	227.37	15	9.695652	14.37162	23.47584	15	-6.52	-20.7	-16.54	-14.49

32	227.33	16	10.36455	14.89527	23.49442	16	-8.25	-20.32	-16.06	-14.37
34	227.35	17	10.94983	15.43581	23.55019	17	-8.77	-20.11	-15.59	-14.24
36	227.36	18	11.45151	15.97635	23.5316	18	-8.51	-19.84	-15.38	-14.13
38	227.38	19	11.91973	16.43243	23.49442	19	-8.89	-19.72	-15.24	-14.04
40	227.32	20	12.30435	16.97297	23.62454	20	-9.63	-19.88	-15.32	-13.97
42	227.32	21	12.57191	17.51351	23.79182	21	-8.76	-20.35	-15.78	-13.99
44	227.34	22	12.87291	17.93581	23.81041	22	-8.77	-20.13	-15.64	-13.97
46	227.35	23	13.27425	18.29054	23.86617	23	-8.26	-20.22	-15.33	-13.94
48	227.39	24	13.67559	18.62838	23.84758	24	-7.24	-19.89	-15.12	-13.89
50	227.33	25	13.92642	18.88176	23.62454	25	-5.65	-19.77	-14.94	-13.85
52	227.32	26	14.11037	19.05068	23.42007	26	-4.68	-19.75	-14.79	-13.76
54	227.34	27	14.37793	19.08446	23.32714	27	-4.51	-19.79	-14.69	-13.62
56	227.31	28	14.59532	19.10135	23.14126	28	-4.49	-19.67	-14.71	-13.46
58	227.30	29	14.76254	19.06757	22.89963	29	-4.11	-19.33	-14.53	-13.36
60	227.30	30	14.97993	19.10135	22.9368	30	-4.47	-19.5	-14.41	-13.46
62	227.31	31	15.24749	19.28716	23.43866	31	-6.35	-20.23	-14.94	-13.71
64	227.31	32	15.51505	19.4223	23.829	32	-5.51	-19.91	-15.01	-13.78
66	227.29	33	15.76589	19.48986	23.69888	33	-4.89	-19.68	-14.92	-13.71
68	227.28	34	15.91639	19.57432	23.49442	34	-4.71	-19.79	-15.04	-13.65
70	227.29	35	16.08361	19.625	23.3829	35	-4.74	-19.85	-15.19	-13.56
72	227.30	36	16.21739	19.74324	23.32714	36	-4.71	-19.74	-15.19	-13.47
74	227.30	37	16.301	19.76014	23.27138	37	-4.63	-19.56	-14.98	-13.41
76	227.28	38	16.38462	19.77703	23.43866	38	-5.01	-19.98	-15.02	-13.45
78	227.27	39	16.41806	19.84459	23.829	39	-6.25	-20.61	-15.46	-13.52
80	227.27	40	16.48495	19.92905	24.05204	40	-5.9	-20.11	-15.74	-13.58
82	227.29	41	16.55184	20.01351	24.12639	41	-5.85	-20.05	-15.55	-13.61
84	227.28	42	16.61873	20.01351	24.05204	42	-5.63	-20.09	-15.42	-13.62
86	227.29	43	16.71906	20.0473	24.05204	43	-5.04	-20.08	-15.31	-13.63
88	227.27	44	16.71906	20.09797	23.95911	44	-4.89	-20.15	-15.27	-13.6
90	227.26	45	16.71906	20.06419	23.86617	45	-4.81	-20.08	-15.27	-13.57
92	227.26	46	16.75251	20.06419	23.77323	46	-4.7	-20	-15.26	-13.54
94	227.27	47	16.80268	20.06419	23.55019	47	-4.46	-19.88	-15.14	-13.5
96	227.27	48	16.8194	19.99662	23.34572	48	-4.2	-19.59	-15	-13.45
98	227.28	49	16.8194	19.96284	23.36431	49	-4.94	-19.75	-14.98	-13.43
100	227.26	50	16.90301	19.97973	23.64312	50	-7.17	-19.98	-15.49	-13.49
102	227.25	51	16.95318	20.0473	23.84758	51	-7.01	-19.78	-15.95	-13.49
104	227.26	52	17.03679	20.09797	23.86617	52	-6.6	-19.68	-15.82	-13.49
106	227.27	53	17.08696	20.11486	23.829	53	-5.84	-19.62	-15.55	-13.49
108	227.26	54	17.17057	19.96284	23.73606	54	-5.21	-19.54	-15.36	-13.44
110	227.25	55	17.15385	19.94595	23.73606	55	-4.73	-19.51	-15.18	-13.41
112	227.25	56	17.02007	20.13176	23.99628	56	-6.08	-20.38	-15.19	-13.4
114	227.25	57	16.91973	20.09797	24.29368	57	-7.81	-20.37	-16.16	-13.45
116	227.26	58	16.88629	20.11486	24.42379	58	-7.29	-20.16	-16.7	-13.46
118	227.26	59	16.95318	20.16554	24.46097	59	-6.65	-19.99	-16.53	-13.47
120	227.25	60	17.05351	20.16554	24.42379	60	-6.11	-20.02	-16.22	-13.46

122	227.24	61	17.17057	19.89527	24.33086	61	-5.64	-20.05	-15.88	-13.47
124	227.24	62	17.23746	20.21622	24.25651	62	-5.12	-19.98	-15.62	-13.48
126	227.25	63	17.33779	19.99662	24.08922	63	-4.76	-19.8	-15.38	-13.47
128	227.25	64	17.4214	19.91216	23.86617	64	-4.52	-19.51	-15.21	-13.45
130	227.25	65	17.52174	19.96284	23.86617	65	-4.81	-19.63	-15.1	-13.44
132	227.24	66	17.57191	20.14865	24.21933	66	-7.26	-20.81	-15.7	-13.49
134	227.23	67	17.62207	19.89527	24.49814	67	-7.71	-20.54	-17.04	-13.5
136	227.24	68	17.68896	20.19932	24.57249	68	-6.97	-20.26	-17.26	-13.49
138	227.24	69	17.75585	20.18243	24.60967	69	-6.51	-20.1	-16.87	-13.49
140	227.24	70	17.75585	19.97973	24.51673	70	-6.07	-20.14	-16.49	-13.48
142	227.24	71	17.82274	20.03041	24.44238	71	-5.68	-20.06	-16.11	-13.46
144	227.23	72	17.87291	20.08108	24.36803	72	-5.31	-20.01	-15.84	-13.43
146	227.23	73	17.85619	19.97973	24.27509	73	-4.94	-19.86	-15.63	-13.4
148	227.23	74	17.92308	19.97973	24.07063	74	-4.58	-19.64	-15.42	-13.36
150	227.24	75	17.92308	20.18243	23.88476	75	-4.47	-19.4	-15.23	-13.33
152	227.24	76	17.92308	20.14865	24.10781	76	-6.48	-20.77	-15.41	-13.35
154	227.23	77	17.95652	20.16554	24.49814	77	-8.32	-21.07	-16.8	-13.4
156	227.24	78	17.92308	19.97973	24.7026	78	-7.68	-20.83	-17.62	-13.42
158	227.22	79	17.90635	19.94595	24.73978	79	-6.88	-20.55	-17.59	-13.43
160	227.23	80	17.92308	20.21622	24.66543	80	-6.44	-20.4	-17.17	-13.42
162	227.23	81	18.00669	20.01351	24.53532	81	-6.05	-20.41	-16.6	-13.41
164	227.23	82	17.98997	19.96284	24.44238	82	-5.85	-20.32	-16.2	-13.41
166	227.23	83	18.00669	19.99662	24.31227	83	-5.54	-20.23	-15.97	-13.39
168	227.23	84	17.98997	19.89527	24.12639	84	-5.17	-20.06	-15.77	-13.36
170	227.23	85	17.97324	19.94595	24.03346	85	-4.9	-19.85	-15.57	-13.33
172	227.21	86	17.9398	20.21622	23.69888	86	-4.56	-19.57	-15.38	-13.28
174	227.22	87	17.97324	20.16554	23.32714	87	-4.39	-19.38	-15.18	-13.25
176	227.23	88	17.9398	20.09797	23.45725	88	-6.2	-20.5	-15.33	-13.29
178	227.23	89	17.9398	20.08108	23.84758	89	-8.23	-20.65	-16.73	-13.34
180	227.22	90	17.9398	19.99662	24.12639	90	-7.67	-20.5	-17.52	-13.37
182	227.22	91	17.90635	19.96284	24.08922	91	-6.7	-20.37	-17.31	-13.38
184	227.22	92	17.97324	20.11486	24.07063	92	-6.25	-20.3	-16.79	-13.4
186	227.21	93	17.98997	20.11486	24.05204	93	-5.97	-20.27	-16.39	-13.42
188	227.22	94	17.97324	19.97973	24.07063	94	-5.77	-20.16	-16.11	-13.44
190	227.22	95	18.02341	19.99662	24.03346	95	-5.5	-20.02	-15.91	-13.44
192	227.22	96	18.05686	19.96284	23.829	96	-5.28	-19.83	-15.74	-13.44
194	227.22	97	18.10702	19.86149	23.56877	97	-5.06	-19.65	-15.57	-13.42
196	227.22	98	18.07358	20.18243	23.25279	98	-4.67	-19.36	-15.38	-13.37
198	227.22	99	17.98997	20.21622	23.3829	99	-5.68	-20.22	-15.38	-13.37
200	227.20	100	18.04013	20.01351	23.829	100	-7.85	-20.83	-16.7	-13.41
202	227.22	101	18.10702	19.99662	24.14498	101	-7.48	-20.74	-17.62	-13.43
204	227.22	102	18.14047	20.01351	24.25651	102	-6.6	-20.34	-17.38	-13.42
206	227.22	103	18.15719	20.0473	24.12639	103	-6.22	-20.27	-16.81	-13.43
208	227.22	104	18.17391	20.08108	24.07063	104	-5.98	-20.24	-16.4	-13.41
210	227.22	105	18.17391	20.23311	24.05204	105	-5.75	-20.15	-16.15	-13.41

212	227.21	106	18.2408	19.86149	23.95911	106	-5.47	-20.02	-15.97	-13.4
214	227.21	107	18.25753	20.25	23.81041	107	-5.29	-19.88	-15.78	-13.37
216	227.21	108	18.2408	20.25	23.58736	108	-5.03	-19.65	-15.61	-13.35
218	227.21	109	18.22408	20.21622	23.2342	109	-4.79	-19.33	-15.43	-13.32
220	227.22	110	18.19064	20.14865	23.10409	110	-4.88	-19.4	-15.3	-13.3
222	227.21	111	18.15719	20.14865	23.28996	111	-6.79	-20.57	-15.74	-13.34
224	227.21	112	18.17391	20.16554	23.55019	112	-7.59	-20.42	-16.98	-13.37
226	227.21	113	18.2408	20.18243	23.73606	113	-6.99	-20.11	-17.1	-13.4
228	227.20	114	18.2408	20.18243	23.86617	114	-6.19	-20.03	-16.58	-13.39
230	227.21	115	18.2408	20.18243	23.79182	115	-5.89	-19.94	-16.2	-13.4
232	227.21	116	18.25753	20.21622	23.73606	116	-5.67	-19.94	-15.98	-13.4
234	227.21	117	18.27425	20.19932	23.66171	117	-5.43	-19.81	-15.81	-13.37
236	227.21	118	18.25753	20.18243	23.51301	118	-5.18	-19.61	-15.64	-13.34
238	227.21	119	18.29097	20.23311	23.27138	119	-4.89	-19.4	-15.48	-13.32
240	227.21	120	18.32441	20.25	23.21561	120	-5.2	-19.65	-15.38	-13.31
242	227.20	121	18.30769	20.16554	23.51301	121	-6.63	-20.84	-15.83	-13.35
244	227.20	122	18.32441	20.21622	23.77323	122	-7.5	-20.41	-17	-13.41
246	227.21	123	18.37458	20.19932	23.94052	123	-7.18	-20.32	-17.34	-13.43
248	227.21	124	18.3913	20.21622	24.05204	124	-6.41	-20.29	-16.94	-13.43
250	227.21	125	18.42475	20.25	24.01487	125	-6.02	-20.32	-16.51	-13.44
252	227.21	126	18.37458	20.01351	23.99628	126	-5.7	-20.23	-16.22	-13.43
254	227.21	127	18.42475	20.21622	23.86617	127	-5.51	-20.13	-16.03	-13.4
256	227.20	128	18.44147	20.19932	23.66171	128	-5.34	-19.9	-15.85	-13.39
258	227.21	129	18.42475	20.23311	23.49442	129	-5.11	-19.66	-15.66	-13.35
260	227.21	130	18.40803	20.23311	23.25279	130	-4.91	-19.42	-15.49	-13.32
262	227.21	131	18.40803	20.16554	23.30855	131	-5.58	-20.28	-15.48	-13.33
264	227.21	132	18.40803	20.11486	23.6803	132	-7.9	-21.31	-16.36	-13.43
266	227.21	133	18.37458	20.13176	23.9777	133	-8.15	-20.93	-17.66	-13.45
268	227.21	134	18.37458	20.13176	24.07063	134	-7.45	-20.8	-17.79	-13.46
270	227.19	135	18.37458	20.13176	23.9777	135	-6.77	-20.68	-17.3	-13.45
272	227.21	136	18.37458	20.11486	23.94052	136	-6.46	-20.64	-16.78	-13.45
274	227.20	137	18.3913	20.11486	23.92193	137	-6.23	-20.63	-16.47	-13.46
276	227.21	138	18.42475	20.13176	23.84758	138	-5.93	-20.5	-16.26	-13.45
278	227.20	139	18.44147	20.18243	23.81041	139	-5.8	-20.37	-16.09	-13.42
280	227.21	140	18.44147	20.19932	23.62454	140	-6.09	-20.18	-15.95	-13.38
282	227.21	141	18.44147	20.18243	23.36431	141	-6.2	-19.86	-15.85	-13.35
284	227.20	142	18.40803	20.14865	22.99257	142	-5.82	-19.53	-15.68	-13.28
286	227.20	143	18.37458	20.06419	22.54647	143	-6.2	-19.35	-15.49	-13.26
288	227.20	144	18.32441	20.0473	22.63941	144	-7.76	-20	-15.78	-13.32
290	227.21	145	18.30769	20.0473	23.0855	145	-9.35	-21.4	-17.05	-13.41
292	227.21	146	18.30769	20.06419	23.47584	146	-8.83	-21.44	-17.5	-13.47
294	227.20	147	18.35786	20.08108	23.6803	147	-8.76	-21.14	-17.15	-13.49
296	227.21	148	18.37458	20.06419	23.75465	148	-8.92	-20.92	-17.18	-13.5
298	227.20	149	18.34114	20.09797	23.77323	149	-8.79	-20.86	-17.31	-13.5
300	227.20	150	18.37458	20.13176	23.73606	150	-8.53	-20.77	-17.2	-13.5

302	227.20	151	18.42475	20.14865	23.64312	151	-8.17	-20.6	-16.95	-13.48
304	227.21	152	18.40803	20.16554	23.5316	152	-7.58	-20.47	-16.64	-13.43
306	227.20	153	18.42475	20.16554	23.3829	153	-6.82	-20.26	-16.3	-13.37
308	227.21	154	18.45819	20.11486	23.0855	154	-6.41	-20.03	-16.04	-13.34
310	227.21	155	18.45819	20.14865	22.62082	155	-6.19	-19.75	-15.79	-13.29
312	227.20	156	18.40803	20.09797	22.17472	156	-6.23	-19.38	-15.52	-13.25
314	227.20	157	18.40803	20.0473	22.17472	157	-7.91	-19.9	-15.66	-13.27
316	227.20	158	18.40803	20.09797	22.71375	158	-9.03	-21.72	-16.54	-13.4
318	227.20	159	18.37458	20.09797	23.19703	159	-9.28	-21.53	-17.06	-13.52
320	227.20	160	18.34114	20.09797	23.42007	160	-9.02	-21.44	-17.25	-13.52
322	227.21	161	18.35786	20.06419	23.5316	161	-9.23	-21.16	-17.22	-13.52
324	227.20	162	18.35786	20.08108	23.49442	162	-9.23	-21.03	-17.47	-13.51
326	227.20	163	18.35786	20.03041	23.34572	163	-9.35	-21	-17.49	-13.49
328	227.20	164	18.37458	20.08108	23.30855	164	-9.08	-20.93	-17.31	-13.46
330	227.20	165	18.37458	20.09797	23.21561	165	-8.38	-20.79	-17.02	-13.42
332	227.20	166	18.3913	20.09797	23.12268	166	-7.51	-20.55	-16.59	-13.36
334	227.21	167	18.40803	20.13176	22.95539	167	-7.03	-20.35	-16.25	-13.33
336	227.20	168	18.42475	20.13176	22.58364	168	-6.58	-20.09	-15.95	-13.34
338	227.20	169	18.44147	20.09797	22.2119	169	-6.23	-19.77	-15.67	-13.34
340	227.20	170	18.42475	20.09797	21.63569	170	-6.16	-19.38	-15.4	-13.33
342	227.21	171	18.34114	20.06419	21.28253	171	-7.13	-19.44	-15.34	-13.34
344	227.20	172	18.29097	19.94595	21.65428	172	-9.21	-21.09	-16.34	-13.46
346	227.20	173	18.27425	20.01351	22.08178	173	-9.18	-21.28	-17.06	-13.58
348	227.20	174	18.2408	20.06419	22.43494	174	-8.86	-21.11	-16.91	-13.62
350	227.20	175	18.29097	20.06419	22.63941	175	-9.13	-21.11	-16.91	-13.61
352	227.20	176	18.32441	20.09797	22.75093	176	-9.48	-20.95	-17.12	-13.57
354	227.20	177	18.37458	20.06419	22.84387	177	-9.28	-20.91	-17.25	-13.51
356	227.19	178	18.35786	20.03041	22.7881	178	-8.86	-20.76	-17.09	-13.47
358	227.20	179	18.3913	20.08108	22.65799	179	-7.8	-20.62	-16.73	-13.39
360	227.20	180	18.37458	20.06419	22.47212	180	-7.32	-20.41	-16.38	-13.37
362	227.20	181	18.3913	20.08108	22.26766	181	-6.83	-20.17	-16.09	-13.36
364	227.20	182	18.44147	20.11486	21.98885	182	-6.46	-19.91	-15.81	-13.33
366	227.21	183	18.3913	20.13176	21.57993	183	-6.23	-19.58	-15.54	-13.29
368	227.20	184	18.32441	20.06419	21.171	184	-6.39	-19.33	-15.33	-13.26
		185	18.34114	20.03041	21.35688	185	-8.63	-20.35	-15.68	-13.3
		186	18.40803	20.01351	21.89591	186	-9	-21.5	-16.35	-13.44
		187	18.42475	19.99662	22.26766	187	-9.07	-21.5	-16.84	-13.53
		188	18.40803	19.97973	22.52788	188	-8.97	-21.44	-16.68	-13.53
		189	18.42475	19.97973	22.69517	189	-8.74	-21.16	-16.74	-13.52
		190	18.40803	19.99662	22.71375	190	-8.84	-21.14	-16.9	-13.5
		191	18.3913	20.06419	22.63941	191	-8.63	-20.98	-16.9	-13.48
		192	18.42475	20.09797	22.49071	192	-8.31	-20.89	-16.7	-13.42
		193	18.47492	20.06419	22.45353	193	-7.6	-20.56	-16.45	-13.38
		194	18.45819	20.11486	22.36059	194	-7.15	-20.41	-16.21	-13.35
		195	18.49164	20.11486	22.08178	195	-6.79	-20.19	-15.98	-13.34

196	18.54181	20.11486	21.67286	196	-6.54	-19.87	-15.73	-13.32
197	18.52508	20.09797	21.18959	197	-6.35	-19.53	-15.48	-13.28
198	18.49164	20.0473	20.55762	198	-6.3	-19.12	-15.25	-13.23
199	18.40803	19.92905	20.31599	199	-7.74	-19.57	-15.37	-13.25
200	18.3913	19.92905	20.94796	200	-9.13	-21.14	-16.19	-13.36
201	18.3913	19.94595	21.48699	201	-9.15	-21.54	-16.66	-13.51
202	18.3913	19.94595	21.82156	202	-9.08	-21.38	-16.61	-13.58
203	18.37458	19.94595	22.00743	203	-8.88	-21.11	-16.61	-13.6
204	18.44147	19.94595	22.10037	204	-8.99	-21.13	-16.78	-13.62
205	18.44147	20.01351	22.2119	205	-9.2	-20.95	-16.84	-13.61
206	18.44147	19.99662	22.17472	206	-8.89	-20.82	-16.79	-13.59
207	18.42475	20.06419	22.19331	207	-8.05	-20.72	-16.59	-13.56
208	18.47492	20.03041	22.15613	208	-7.39	-20.46	-16.31	-13.51
209	18.52508	20.0473	21.93309	209	-7.12	-20.25	-16.09	-13.49
210	18.52508	20.09797	21.63569	210	-6.89	-19.99	-15.85	-13.46
211	18.52508	20.08108	21.20818	211	-6.63	-19.67	-15.61	-13.45
212	18.50836	20.09797	20.70632	212	-6.63	-19.32	-15.39	-13.42
213	18.45819	20.01351	20.81784	213	-8.65	-20.16	-15.69	-13.45
214	18.45819	19.99662	21.39405	214	-9.16	-21.36	-16.48	-13.59
215	18.45819	19.99662	21.85874	215	-8.99	-21.63	-16.82	-13.66
216	18.47492	19.97973	22.11896	216	-9.07	-21.42	-16.69	-13.68
217	18.50836	19.99662	22.26766	217	-8.92	-21.27	-16.74	-13.69
218	18.52508	20.0473	22.28625	218	-8.79	-21.28	-16.9	-13.67
219	18.52508	19.97973	22.30483	219	-8.68	-21.22	-16.9	-13.64
220	18.50836	20.01351	22.2119	220	-8.29	-21.04	-16.74	-13.57
221	18.49164	20.03041	22.08178	221	-7.53	-20.69	-16.49	-13.5
222	18.47492	20.01351	21.98885	222	-7.3	-20.47	-16.23	-13.45
223	18.55853	20.09797	21.84015	223	-7.11	-20.25	-16.01	-13.42
224	18.54181	20.09797	21.48699	224	-6.82	-19.96	-15.77	-13.37
225	18.52508	20.06419	20.89219	225	-6.61	-19.58	-15.53	-13.32
226	18.52508	19.99662	20.26022	226	-6.65	-19.19	-15.34	-13.26
227	18.47492	19.99662	20.11152	227	-7.77	-19.64	-15.4	-13.26
228	18.42475	19.96284	20.70632	228	-9.4	-20.86	-16.07	-13.35
229	18.40803	19.97973	21.3197	229	-9.33	-21.41	-16.77	-13.45
230	18.45819	19.96284	21.6171	230	-9.04	-21.37	-16.74	-13.51
231	18.44147	19.96284	21.72862	231	-8.93	-21.06	-16.75	-13.53
232	18.45819	19.97973	21.82156	232	-8.78	-21.21	-16.82	-13.52
233	18.50836	19.96284	21.85874	233	-8.81	-21.24	-16.95	-13.5
234	18.52508	19.96284	21.87732	234	-8.43	-21.08	-16.83	-13.46
235	18.55853	20.03041	21.93309	235	-7.78	-20.73	-16.55	-13.41
236	18.52508	20.01351	21.84015	236	-7.47	-20.5	-16.3	-13.36
237	18.52508	20.08108	21.57993	237	-7.18	-20.31	-16.06	-13.33
238	18.57525	20.13176	21.30112	238	-6.93	-19.99	-15.82	-13.3
239	18.54181	20.11486	20.91078	239	-6.84	-19.64	-15.58	-13.27
240	18.52508	20.03041	20.46468	240	-7.14	-19.45	-15.42	-13.22

241	18.49164	19.96284	20.70632	241	-9.02	-20.47	-15.88	-13.31
242	18.49164	19.94595	21.30112	242	-9.26	-21.3	-16.58	-13.47
243	18.49164	19.91216	21.71004	243	-9.1	-21.48	-16.65	-13.56
244	18.49164	19.92905	21.93309	244	-9.13	-21.2	-16.69	-13.6
245	18.52508	19.94595	22.04461	245	-9.07	-21.32	-16.74	-13.62
246	18.52508	19.96284	22.04461	246	-9.06	-21.34	-16.85	-13.62
247	18.54181	19.99662	21.98885	247	-8.92	-21.21	-16.83	-13.6
248	18.55853	20.01351	21.95167	248	-8.22	-20.9	-16.63	-13.57
249	18.54181	20.01351	21.87732	249	-7.67	-20.63	-16.38	-13.52
250	18.57525	20.01351	21.72862	250	-7.36	-20.43	-16.15	-13.46
251	18.57525	20.06419	21.50558	251	-7.16	-20.15	-15.91	-13.4
252	18.52508	20.03041	21.07807	252	-7.02	-19.78	-15.66	-13.34
253	18.50836	20.06419	20.50186	253	-7.19	-19.39	-15.47	-13.25
254	18.47492	19.96284	19.83271	254	-7.38	-19.07	-15.35	-13.21
255	18.3913	19.87838	19.77695	255	-8.66	-19.95	-15.58	-13.24
256	18.35786	19.89527	20.46468	256	-9.29	-21.05	-16.28	-13.37
257	18.35786	19.87838	21.00372	257	-9.47	-21.59	-16.76	-13.46
258	18.37458	19.89527	21.28253	258	-9.46	-21.58	-16.69	-13.49
259	18.35786	19.87838	21.48699	259	-9.49	-21.35	-16.7	-13.5
260	18.3913	19.92905	21.59851	260	-9.47	-21.43	-16.83	-13.49
261	18.44147	19.99662	21.63569	261	-9.61	-21.18	-16.88	-13.46
262	18.40803	20.01351	21.63569	262	-9.37	-21.07	-16.82	-13.42
263	18.45819	19.97973	21.6171	263	-8.61	-20.92	-16.62	-13.37
264	18.47492	19.99662	21.56134	264	-8.1	-20.59	-16.35	-13.35
265	18.44147	20.01351	21.35688	265	-7.59	-20.33	-16.11	-13.35
266	18.45819	20.0473	20.98513	266	-7.33	-20.03	-15.87	-13.32
267	18.47492	20.01351	20.53903	267	-7.3	-19.65	-15.64	-13.28
268	18.45819	19.99662	20.05576	268	-7.29	-19.35	-15.46	-13.22
269	18.42475	19.92905	20.1487	269	-9.07	-20.32	-15.78	-13.28
270	18.42475	19.96284	20.85502	270	-9.23	-21.41	-16.45	-13.48
271	18.40803	19.94595	21.39405	271	-9.68	-21.85	-16.83	-13.66
272	18.45819	19.96284	21.63569	272	-9.89	-21.91	-17.07	-13.64
273	18.42475	19.92905	21.80297	273	-9.9	-21.94	-16.92	-13.63
274	18.3913	19.97973	21.85874	274	-9.89	-21.84	-16.89	-13.6
275	18.44147	20.03041	21.87732	275	-9.84	-21.9	-16.92	-13.57
276	18.49164	20.0473	21.84015	276	-9.71	-21.68	-16.9	-13.52
277	18.52508	20.01351	21.78439	277	-9.15	-21.54	-16.78	-13.48
278	18.50836	20.01351	21.69145	278	-8.54	-21.19	-16.54	-13.42
279	18.49164	19.99662	21.59851	279	-8.02	-20.87	-16.3	-13.38
280	18.55853	20.01351	21.37546	280	-7.68	-20.57	-16.06	-13.34
281	18.57525	20.06419	21.00372	281	-7.47	-20.18	-15.82	-13.3
282	18.52508	20.03041	20.46468	282	-7.46	-19.76	-15.62	-13.25
283	18.44147	19.92905	19.62825	283	-7.52	-19.42	-15.47	-13.2
284	18.34114	19.86149	18.9777	284	-7.86	-19.48	-15.4	-13.21
285	18.25753	19.84459	19.23792	285	-9.27	-20.72	-15.96	-13.31

286	18.20736	19.86149	19.81413	286	-9.78	-21.43	-16.74	-13.47
287	18.2408	19.91216	20.2974	287	-9.52	-21.54	-16.78	-13.57
288	18.2408	19.89527	20.68773	288	-9.51	-21.54	-16.77	-13.63
289	18.2408	19.89527	20.76208	289	-9.51	-21.57	-16.88	-13.65
290	18.25753	19.91216	20.83643	290	-9.59	-21.41	-16.94	-13.65
291	18.30769	19.96284	20.87361	291	-9.35	-21.21	-16.87	-13.63
292	18.32441	19.97973	20.92937	292	-8.71	-21.09	-16.72	-13.59
293	18.34114	19.96284	20.91078	293	-8.12	-20.81	-16.45	-13.54
294	18.42475	19.97973	20.81784	294	-7.78	-20.51	-16.22	-13.47
295	18.44147	19.99662	20.65056	295	-7.6	-20.19	-15.97	-13.38
296	18.44147	19.99662	20.20446	296	-7.6	-19.86	-15.76	-13.32
297	18.42475	19.97973	19.47955	297	-7.58	-19.5	-15.6	-13.26
298	18.37458	19.92905	18.99628	298	-7.53	-19.41	-15.47	-13.2
299	18.30769	19.89527	19.25651	299	-8.83	-20.43	-15.84	-13.25
300	18.30769	19.92905	19.83271	300	-9.43	-21.47	-16.49	-13.35
301	18.32441	19.91216	20.35316	301	-9.35	-21.22	-16.6	-13.41
302	18.35786	19.92905	20.63197	302	-9.26	-21.23	-16.73	-13.46
303	18.37458	19.91216	20.85502	303	-9.11	-21.15	-16.86	-13.45
304	18.35786	19.94595	20.98513	304	-9.09	-21.07	-16.9	-13.43
305	18.35786	19.99662	21.05948	305	-8.93	-20.98	-16.81	-13.42
306	18.37458	20.0473	21.00372	306	-8.53	-20.85	-16.63	-13.4
307	18.3913	20.0473	20.98513	307	-8	-20.6	-16.38	-13.36
308	18.44147	20.03041	20.83643	308	-7.85	-20.3	-16.13	-13.3
309	18.44147	20.03041	20.52045	309	-7.81	-20	-15.94	-13.26
310	18.42475	19.99662	20.1487	310	-7.67	-19.7	-15.79	-13.24
311	18.37458	19.99662	19.66543	311	-7.66	-19.39	-15.61	-13.18
312	18.35786	19.89527	19.36803	312	-8.03	-19.73	-15.58	-13.18
313	18.30769	19.89527	19.96283	313	-9.52	-20.9	-16.24	-13.31
314	18.27425	19.92905	20.53903	314	-9.54	-21.5	-16.78	-13.42
315	18.29097	19.92905	20.85502	315	-9.5	-21.3	-16.76	-13.46
316	18.30769	19.97973	21.11524	316	-9.49	-21.4	-16.82	-13.48
317	18.32441	19.96284	21.15242	317	-9.42	-21.48	-16.91	-13.48
318	18.35786	19.96284	21.20818	318	-9.49	-21.32	-16.91	-13.44
319	18.34114	19.96284	21.15242	319	-8.93	-21.17	-16.79	-13.4
320	18.37458	19.94595	21.09665	320	-8.3	-21	-16.56	-13.36
321	18.32441	19.97973	20.89219	321	-8.02	-20.61	-16.31	-13.31
322	18.37458	20.03041	20.83643	322	-7.88	-20.32	-16.1	-13.27
323	18.40803	20.03041	20.53903	323	-7.75	-20.03	-15.93	-13.23
324	18.37458	20.01351	20.03717	324	-7.57	-19.71	-15.76	-13.19
325	18.3913	19.96284	19.47955	325	-7.52	-19.38	-15.57	-13.14
326	18.37458	19.87838	19.27509	326	-7.94	-19.77	-15.55	-13.16
327	18.29097	19.86149	19.68401	327	-9.45	-21.26	-16.13	-13.25
328	18.2408	19.89527	20.13011	328	-9.33	-21.36	-16.42	-13.38
329	18.22408	19.92905	20.4461	329	-9.26	-21.19	-16.6	-13.47
330	18.27425	19.96284	20.72491	330	-9.27	-21.22	-16.71	-13.52

331	18.29097	19.91216	20.85502	331	-9.21	-21.17	-16.73	-13.55
332	18.29097	19.94595	20.91078	332	-9.11	-21.11	-16.69	-13.55
333	18.34114	19.99662	20.87361	333	-8.74	-21.01	-16.58	-13.54
334	18.35786	20.01351	20.87361	334	-8.16	-20.78	-16.4	-13.51
335	18.3913	20.0473	20.81784	335	-7.94	-20.48	-16.2	-13.48
336	18.40803	20.01351	20.57621	336	-7.76	-20.23	-16.02	-13.44
337	18.44147	19.99662	20.24164	337	-7.59	-19.94	-15.86	-13.41
338	18.3913	19.99662	19.68401	338	-7.61	-19.65	-15.68	-13.38
339	18.35786	19.97973	18.88476	339	-7.57	-19.33	-15.48	-13.33
340	18.27425	19.87838	18.27138	340	-7.66	-19.26	-15.32	-13.29
341	18.15719	19.74324	18.49442	341	-8.84	-20.59	-15.83	-13.36
342	18.05686	19.74324	19.14498	342	-9.64	-21.26	-16.64	-13.46
343	18.05686	19.77703	19.73978	343	-9.48	-21.39	-16.75	-13.54
344	18.10702	19.79392	20.05576	344	-9.5	-21.27	-16.79	-13.59
345	18.14047	19.8277	20.22305	345	-9.88	-21.37	-16.93	-13.62
346	18.14047	19.91216	20.37175	346	-9.9	-21.37	-17.01	-13.62
347	18.15719	19.92905	20.42751	347	-9.68	-21.29	-16.96	-13.61
348	18.20736	19.94595	20.53903	348	-9.12	-21.22	-16.81	-13.59
349	18.2408	19.91216	20.48327	349	-8.53	-21.06	-16.59	-13.56
350	18.30769	19.92905	20.42751	350	-8	-20.7	-16.34	-13.51
351	18.35786	19.96284	20.2974	351	-7.74	-20.44	-16.1	-13.48
352	18.30769	19.91216	19.88848	352	-7.57	-20.14	-15.88	-13.43
353	18.27425	19.92905	19.18216	353	-7.45	-19.81	-15.68	-13.4
354	18.27425	19.94595	18.47584	354	-7.36	-19.49	-15.48	-13.35
355	18.14047	19.84459	17.65799	355	-7.19	-19.27	-15.28	-13.3
356	18.00669	19.74324	17.43494	356	-8.46	-20.04	-15.47	-13.35
357	17.97324	19.70946	18.10409	357	-9.38	-21.11	-16.32	-13.47
358	17.97324	19.74324	18.79182	358	-9.32	-21.51	-16.65	-13.54
359	17.9398	19.72635	19.18216	359	-9.17	-21.26	-16.69	-13.55
360	18.02341	19.79392	19.42379	360	-9.48	-21.25	-16.83	-13.54
361	18.04013	19.8277	19.60967	361	-9.62	-21.23	-16.92	-13.51
362	18.07358	19.84459	19.81413	362	-9.4	-21.21	-16.89	-13.48
363	18.0903	19.92905	19.98141	363	-8.8	-21.19	-16.76	-13.44
364	18.14047	19.91216	19.86989	364	-8.16	-21.04	-16.54	-13.39
365	18.20736	19.87838	19.77695	365	-7.73	-20.77	-16.28	-13.34
366	18.22408	19.91216	19.62825	366	-7.58	-20.48	-16.05	-13.3
367	18.27425	19.94595	19.29368	367	-7.41	-20.17	-15.84	-13.24

Deli_exp_2

Experiment type: Deliquescence experiment. The regolith type is JSC Mars-1 in this experiment, with a thickness of 2 cm. The initial weight was 331.52 g. Calcium perchlorate was added at

10.08 wt% increasing the mass to 364.95 g. The humidity buffer was LiCl which has a RH of 11.31 at 0 degrees Celsius. Temperature around the sample was as close to -23 degrees Celsius as possible, cooled with liquid nitrogen and chiller system.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= humidity buffer 3= atmosphere 4= sample

Mass		RH	T							
Min.	Mass	Min.	Ch02	Ch03	Ch04	Min.	Ch01	Ch02	Ch03	Ch04
1	416.88	0	6.769231	2.885135	14.5539	0	21.18	-8.34	-7.7	-10.15
3	413.82	1	6.719064	2.800676	14.38662	1	7.9	-8.18	-6.09	-12.22
5	412.97	2	6.886288	2.564189	14.77695	2	-5.36	-10.79	-8.27	-12.92
7	423.97	3	7.204013	2.682432	15.61338	3	-5.3	-10.37	-9.06	-12.98
9	422.78	4	7.521739	1.179054	16.13383	4	-2.53	-9.53	-8.95	-12.88
11	411.12	5	7.571906	1.016892	16.15242	5	-1.74	-9.36	-8.65	-12.81
13	408.88	6	7.371237	1.506757	15.79926	6	-1.87	-9.68	-8.5	-12.81
15	408.97	7	7.204013	0.942568	15.46468	7	-4.69	-13	-9.24	-12.87
17	409.01	8	7.438127	5.114865	15.5948	8	-5.64	-17.02	-9.67	-12.91
19	409.8	9	8.474916	9.709459	15.98513	9	-5.5	-19.52	-9.95	-12.91
21	429.83	10	10.09699	13.27365	16.39405	10	-5.56	-20.84	-10.17	-12.87
23	425	11	11.61873	15.41892	16.67286	11	-5.59	-21.43	-10.22	-12.84
25	414.67	12	12.80602	16.65203	16.82156	12	-5.66	-21.54	-10.25	-12.81
27	407.12	13	13.65886	17.42905	16.95167	13	-5.6	-21.33	-10.16	-12.76
29	407.74	14	14.26087	17.91892	17.15613	14	-5.36	-20.87	-10.06	-12.73
31	407.76	15	14.64548	18.15541	17.26766	15	-5.09	-20.28	-9.91	-12.68
33	407.85	16	14.86288	18.29054	17.32342	16	-4.93	-19.58	-9.79	-12.66
35	407.95	17	15.04682	18.30743	17.24907	17	-4.58	-18.8	-9.69	-12.61
37	408.08	18	15.16388	18.12162	17.13755	18	-4.43	-18.01	-9.62	-12.56
39	408.19	19	15.08027	17.83446	17.08178	19	-4.24	-17.24	-9.47	-12.52
41	408.54	20	14.8796	17.49662	16.89591	20	-4.55	-16.93	-9.38	-12.53
43	407.63	21	14.82943	17.75	16.9145	21	-8.26	-21.4	-10.25	-12.64
45	408.12	22	15.1806	18.35811	17.30483	22	-8.83	-27.78	-11.87	-12.74
47	408.09	23	15.63211	18.74662	17.84387	23	-8.96	-31.93	-12.26	-12.81
49	408.14	24	15.96656	19.10135	18.40149	24	-8.45	-34.39	-12.35	-12.87
51	408.24	25	16.18395	19.38851	18.77323	25	-7.79	-35.21	-12.59	-12.87
53	408.61	26	16.28428	19.52365	19.08922	26	-8.74	-35.37	-12.67	-12.86
55	407.45	27	16.40134	19.60811	19.29368	27	-8.18	-35.03	-12.72	-12.85
57	408.12	28	16.51839	19.74324	19.27509	28	-7.51	-34.39	-12.56	-12.84
59	408.05	29	16.56856	19.79392	19.16357	29	-6.19	-33.55	-12.39	-12.83
61	408.05	30	16.61873	19.87838	19.01487	30	-4.66	-32.36	-12.25	-12.83

63	408.1	31	16.73579	19.92905	18.6803	31	-3.82	-31.19	-12.14	-12.82
65	408.2	32	16.78595	19.92905	18.43866	32	-3.5	-29.94	-12.02	-12.84
67	407.44	33	16.8194	19.91216	18.36431	33	-3.11	-28.63	-11.86	-12.86
69	407.76	34	16.88629	19.87838	18.2342	34	-2.76	-27.2	-11.68	-12.86
71	408.03	35	16.86957	19.84459	18.06691	35	-2.31	-25.91	-11.51	-12.84
73	407.92	36	16.88629	19.74324	17.97398	36	-1.96	-24.63	-11.34	-12.83
75	407.9	37	16.8194	19.57432	17.88104	37	-1.73	-23.38	-11.15	-12.8
77	407.94	38	16.68562	19.33784	17.9368	38	-1.45	-22.22	-10.97	-12.77
79	408.03	39	16.53512	18.98311	17.82528	39	-1.11	-21.1	-10.78	-12.74
81	408.21	40	16.23411	18.44257	17.58364	40	-0.83	-20.04	-10.61	-12.71
83	423.62	41	15.699	17.76689	17.32342	41	-0.59	-19.06	-10.41	-12.68
85	406.2	42	15.21405	17.24324	16.85874	42	-1.28	-19.47	-10.37	-12.77
87	407.51	43	15.28094	17.64865	16.52416	43	-2.67	-22.5	-10.68	-13
89	407.41	44	15.78261	18.39189	16.52416	44	-2.99	-24.47	-10.91	-13.07
91	407.37	45	16.25084	18.88176	16.72862	45	-2.77	-25.46	-11.06	-13.07
93	407.4	46	16.65217	19.2027	16.98885	46	-2.39	-25.45	-11.11	-13.05
95	407.5	47	16.93645	19.40541	17.2119	47	-2.15	-25.08	-11.1	-13.01
97	407.61	48	17.08696	19.52365	17.47212	48	-1.88	-24.42	-11.05	-12.96
99	407.79	49	17.20401	19.60811	17.73234	49	-1.6	-23.47	-10.99	-12.92
101	407.77	50	17.30435	19.57432	17.88104	50	-1.47	-22.53	-10.9	-12.88
103	407.66	51	17.30435	19.48986	18.0855	51	-1.31	-21.5	-10.8	-12.82
105	407.5	52	17.28763	19.37162	18.19703	52	-1.05	-20.45	-10.69	-12.76
107	407.46	53	17.1204	19.13514	18.15985	53	-0.81	-19.48	-10.57	-12.7
109	407.51	54	16.83612	18.78041	18.04833	54	-1.38	-19.58	-10.5	-12.69
111	407.6	55	16.78595	18.71284	17.9368	55	-3.13	-23.24	-10.79	-12.94
113	407.7	56	16.9699	18.96622	17.99257	56	-3.34	-25.63	-11.09	-13.04
115	407.88	57	17.15385	19.23649	18.25279	57	-3.33	-26.91	-11.31	-13.07
117	408.06	58	17.32107	19.48986	18.49442	58	-3.05	-27.07	-11.36	-13.05
119	407.55	59	17.48829	19.65878	18.60595	59	-2.72	-26.69	-11.39	-13.03
121	407.42	60	17.60535	19.72635	18.75465	60	-2.47	-26	-11.37	-13
123	407.41	61	17.6388	19.74324	18.90335	61	-2.26	-25.14	-11.33	-12.96
125	407.42	62	17.67224	19.74324	18.94052	62	-2.03	-24.17	-11.25	-12.91
127	407.48	63	17.70569	19.72635	18.99628	63	-1.81	-23.09	-11.13	-12.83
129	407.58	64	17.68896	19.65878	19.12639	64	-1.56	-21.99	-11.01	-12.75
131	407.7	65	17.58863	19.55743	19.14498	65	-1.31	-20.94	-10.87	-12.7
133	401.85	66	17.37124	19.30405	19.05204	66	-1.09	-19.86	-10.72	-12.64
135	410.11	67	17.05351	18.81419	18.9777	67	-0.89	-18.94	-10.57	-12.58
137	407.23	68	16.76923	18.45946	18.73606	68	-2.16	-20.2	-10.59	-12.68
139	407.19	69	16.68562	18.61149	18.55019	69	-4.03	-23.61	-10.88	-12.91
141	407.22	70	16.88629	18.93243	18.51301	70	-4.56	-25.53	-11.11	-12.97
143	407.32	71	17.15385	19.23649	18.6803	71	-4.22	-26.06	-11.27	-12.93
145	407.42	72	17.38796	19.43919	18.86617	72	-3.54	-26.48	-11.41	-12.91
147	407.54	73	17.55518	19.57432	18.9777	73	-3.22	-26.3	-11.46	-12.91
149	407.89	74	17.65552	19.67568	19.12639	74	-2.84	-26	-11.41	-12.9
151	408.08	75	17.75585	19.70946	19.29368	75	-2.49	-25.3	-11.31	-12.88

153	406.87	76	17.85619	19.77703	19.36803	76	-2.22	-24.32	-11.21	-12.86
155	407.25	77	17.83946	19.74324	19.47955	77	-2.02	-23.33	-11.08	-12.84
157	407.2	78	17.77258	19.60811	19.51673	78	-1.79	-22.3	-10.93	-12.8
159	407.22	79	17.62207	19.43919	19.44238	79	-1.57	-21.17	-10.78	-12.78
161	407.31	80	17.35452	19.13514	19.23792	80	-1.3	-19.98	-10.65	-12.74
163	407.41	81	16.95318	18.62838	19.10781	81	-1.02	-18.95	-10.49	-12.69
165	407.53	82	16.43478	17.93581	18.90335	82	-0.96	-18.16	-10.34	-12.67
167	386.69	83	16.06689	17.58108	18.43866	83	-2.75	-20.63	-10.51	-12.86
169	410.61	84	16.1505	18.00338	18.0855	84	-3.76	-24.04	-11.31	-13.02
171	405.87	85	16.51839	18.52703	18.30855	85	-4.18	-26.53	-11.79	-13.05
173	407.09	86	16.83612	18.93243	18.56877	86	-4.72	-28.11	-11.92	-13.04
175	407.09	87	17.1204	19.21959	18.79182	87	-4.56	-29.56	-11.98	-12.99
177	407.09	88	17.40468	19.4223	19.07063	88	-4.99	-29.99	-11.97	-12.94
		89	17.58863	19.55743	19.23792	89	-5.18	-29.85	-11.93	-12.92
		90	17.73913	19.64189	19.33086	90	-5.1	-29.54	-11.85	-12.87
		91	17.85619	19.67568	19.47955	91	-4.91	-28.86	-11.76	-12.84
		92	17.90635	19.74324	19.60967	92	-4.52	-27.86	-11.66	-12.84
		93	17.95652	19.79392	19.72119	93	-4.25	-26.83	-11.55	-12.82
		94	18.00669	19.79392	19.83271	94	-3.82	-25.71	-11.42	-12.8
		95	17.98997	19.74324	19.72119	95	-3.46	-24.54	-11.28	-12.77
		96	17.87291	19.59122	19.60967	96	-3.09	-23.4	-11.12	-12.75
		97	17.72241	19.35473	19.59108	97	-2.69	-22.29	-10.97	-12.74
		98	17.43813	19.06757	19.44238	98	-2.17	-21.17	-10.81	-12.71
		99	16.98662	18.59459	19.16357	99	-1.51	-19.9	-10.63	-12.67
		100	16.36789	17.86824	18.71747	100	-1.3	-18.83	-10.47	-12.66
		101	15.89967	17.3277	18.25279	101	-2.97	-20.15	-10.6	-12.8
		102	15.98328	17.73311	17.95539	102	-4.21	-22.59	-11.08	-12.91
		103	16.301	18.32432	17.91822	103	-4.3	-24.93	-11.41	-12.9
		104	16.63545	18.71284	18.12268	104	-4.4	-26.17	-11.58	-12.86
		105	16.98662	19.01689	18.34572	105	-4.76	-26.89	-11.54	-12.82
		106	17.2709	19.2027	18.56877	106	-4.93	-26.92	-11.47	-12.78
		107	17.47157	19.35473	18.73606	107	-4.64	-26.46	-11.38	-12.76
		108	17.57191	19.4223	18.90335	108	-4.19	-25.7	-11.29	-12.76
		109	17.68896	19.50676	19.10781	109	-3.96	-24.77	-11.19	-12.76
		110	17.73913	19.52365	19.16357	110	-3.52	-23.79	-11.07	-12.74
		111	17.73913	19.4223	19.12639	111	-3.1	-22.79	-10.93	-12.71
		112	17.6388	19.25338	19.08922	112	-2.66	-21.79	-10.79	-12.66
		113	17.35452	19	18.95911	113	-2.31	-20.78	-10.65	-12.59
		114	16.93645	18.52703	18.6803	114	-1.74	-19.7	-10.5	-12.54
		115	16.35117	17.80068	18.32714	115	-1.36	-18.57	-10.34	-12.48
		116	15.51505	16.87162	17.88104	116	-1.17	-17.63	-10.18	-12.47
		117	14.92977	16.5	17.39777	117	-2.6	-19.34	-10.32	-12.64
		118	15.11371	17.15878	17.13755	118	-4.03	-22.67	-10.92	-12.81
		119	15.66555	17.90203	17.10037	119	-4.54	-25.12	-11.39	-12.85
		120	16.23411	18.375	17.37918	120	-4.87	-26.48	-11.59	-12.84

121	16.65217	18.71284	17.67658	121	-4.67	-27.17	-11.66	-12.82
122	17.00334	19	17.95539	122	-4.75	-27.7	-11.68	-12.8
123	17.25418	19.21959	18.2342	123	-4.74	-27.68	-11.61	-12.77
124	17.43813	19.33784	18.45725	124	-4.71	-27.21	-11.52	-12.74
125	17.62207	19.4223	18.64312	125	-4.59	-26.48	-11.41	-12.7
126	17.72241	19.48986	18.73606	126	-4.42	-25.59	-11.3	-12.66
127	17.77258	19.47297	18.84758	127	-4.1	-24.56	-11.18	-12.64
128	17.75585	19.38851	18.95911	128	-3.72	-23.52	-11.05	-12.61
129	17.73913	19.32095	18.95911	129	-3.32	-22.46	-10.9	-12.55
130	17.53846	19.06757	18.94052	130	-2.89	-21.45	-10.76	-12.53
131	17.22074	18.67905	18.86617	131	-2.54	-20.46	-10.6	-12.47
132	16.80268	18.08784	18.58736	132	-1.84	-19.38	-10.44	-12.47
133	16.10033	17.29392	18.19703	133	-1.5	-18.33	-10.29	-12.46
134	15.54849	16.9223	17.75093	134	-2.9	-19.97	-10.47	-12.61
135	15.63211	17.36149	17.39777	135	-4.44	-24.13	-11.14	-12.74
136	16	18.02027	17.52788	136	-5.24	-26.78	-11.59	-12.77
137	16.45151	18.49324	17.75093	137	-5.54	-28.38	-11.86	-12.77
138	16.88629	18.81419	17.86245	138	-6.01	-29.65	-11.98	-12.78
139	17.20401	19.08446	18.12268	139	-6.08	-30.13	-11.97	-12.79
140	17.4214	19.27027	18.42007	140	-5.94	-30.01	-11.89	-12.77
141	17.57191	19.4223	18.69888	141	-5.95	-29.6	-11.8	-12.75
142	17.68896	19.48986	18.9777	142	-5.97	-28.76	-11.7	-12.74
143	17.7893	19.48986	19.18216	143	-6.13	-27.83	-11.61	-12.72
144	17.88963	19.52365	19.25651	144	-5.58	-26.88	-11.51	-12.69
145	17.95652	19.59122	19.29368	145	-4.92	-25.82	-11.37	-12.7
146	17.9398	19.50676	19.31227	146	-4.12	-24.72	-11.24	-12.7
147	17.85619	19.43919	19.29368	147	-4.07	-23.64	-11.1	-12.69
148	17.75585	19.25338	19.23792	148	-3.68	-22.6	-10.97	-12.68
149	17.50502	19.01689	19.08922	149	-3.2	-21.58	-10.82	-12.66
150	17.08696	18.61149	18.75465	150	-2.48	-20.52	-10.67	-12.64
151	16.55184	17.85135	18.30855	151	-1.89	-19.4	-10.52	-12.62
152	15.88294	17.04054	17.82528	152	-1.86	-18.61	-10.39	-12.63
153	15.39799	16.93919	17.41636	153	-4.04	-21.06	-10.73	-12.79
154	15.59866	17.47973	17.26766	154	-5.94	-24.77	-11.43	-12.85
155	16.01672	18.07095	17.2119	155	-6.5	-26.89	-11.72	-12.85
156	16.43478	18.54392	17.37918	156	-6.68	-28.41	-11.78	-12.82
157	16.8194	18.83108	17.63941	157	-6.35	-29.26	-11.8	-12.83
158	17.13712	19.06757	17.88104	158	-6.51	-29.31	-11.74	-12.84
159	17.38796	19.27027	18.15985	159	-6.21	-29.03	-11.66	-12.84
160	17.55518	19.37162	18.40149	160	-6.3	-28.32	-11.57	-12.84
161	17.67224	19.45608	18.62454	161	-6.6	-27.37	-11.49	-12.83
162	17.77258	19.47297	18.86617	162	-6.12	-26.41	-11.41	-12.8
163	17.75585	19.50676	18.94052	163	-5.32	-25.4	-11.28	-12.76
164	17.80602	19.45608	19.07063	164	-4.33	-24.35	-11.14	-12.72
165	17.80602	19.45608	19.07063	165	-4.24	-23.29	-11	-12.66

166	17.65552	19.33784	18.94052	166	-3.78	-22.3	-10.89	-12.62
167	17.43813	19.06757	18.79182	167	-3.28	-21.29	-10.74	-12.57
168	17.07023	18.64527	18.43866	168	-2.73	-20.29	-10.59	-12.51
169	16.48495	17.86824	17.97398	169	-2.08	-19.28	-10.45	-12.46
170	15.91639	17.22635	17.62082	170	-3.1	-20.07	-10.52	-12.54
171	15.79933	17.56419	17.32342	171	-5.57	-23.98	-11.23	-12.66
172	16.08361	18.12162	17.2119	172	-6.8	-27.22	-11.83	-12.71
173	16.46823	18.5777	17.34201	173	-7.23	-29.22	-12.04	-12.72
174	16.83612	18.88176	17.62082	174	-7.02	-30.12	-12.06	-12.73
175	17.10368	19.13514	17.91822	175	-6.81	-30.33	-12.01	-12.73
176	17.33779	19.33784	18.19703	176	-6.68	-30.18	-11.94	-12.72
177	17.52174	19.4223	18.49442	177	-6.51	-29.66	-11.84	-12.73
178	17.6388	19.45608	18.73606	178	-6.47	-28.92	-11.74	-12.75

Deli_exp_3

Experiment type: Deliquescence experiment. The regolith type is JSC Mars-1 in this experiment, with a thickness of 2 cm. The initial weight was 215.89 g. Calcium perchlorate was added at 1.3 wt% increasing the mass to 218.73 g. The humidity buffer was LiCl which has a RH of 11.31 at 0 degrees Celsius. Temperature around the sample was as close to -12 degrees Celsius as possible, cooled with liquid nitrogen and chiller system.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= humidity buffer 3= atmosphere 4= sample

Mass		RH				T				
Min.	Mass	Min.	Ch02	Ch03	Ch04	Min.	Ch01	Ch02	Ch03	Ch04
1	218.73	0	14.96321	16.31419	19.64684	0	12.1	-11.36	-8.43	-12.36
3	217.4	1	14.86288	16.26351	19.47955	1	0.45	-11.47	-8.48	-12.35
5	217.06	2	14.81271	16.09459	19.25651	2	-7.38	-15.39	-9.32	-12.83
7	216.91	3	14.76254	15.84122	19.21933	3	-7.39	-13.79	-9.72	-12.8
9	216.86	4	14.79599	14.94595	19.44238	4	-6.34	-12.85	-9.38	-12.7
11	216.85	5	14.74582	13.83108	19.68401	5	-5.08	-12.47	-8.95	-12.66
13	216.78	6	14.47826	13.39189	19.68401	6	-3.19	-11.99	-8.61	-12.56
15	216.77	7	14.0602	12.93581	19.51673	7	-2.07	-11.71	-8.39	-12.43
17	216.82	8	13.55853	11.90541	19.23792	8	-1.61	-11.23	-8.28	-12.3
19	216.84	9	13.02341	11.41554	18.9777	9	-1.55	-10.78	-8.18	-12.19
21	216.84	10	12.58863	12.20946	18.58736	10	-1.21	-10.34	-8.1	-12.08

23	216.83	11	12.4214	13.44257	18.17844	11	-1.05	-9.93	-8.03	-12
25	216.83	12	12.45485	14.52365	17.84387	12	-0.83	-9.53	-7.98	-11.93
27	216.82	13	12.62207	15.33446	17.56506	13	-1.18	-9.59	-7.99	-11.94
29	216.82	14	12.88963	15.97635	17.34201	14	-3.65	-10.88	-8.47	-12.18
31	216.82	15	13.3913	16.78716	17.19331	15	-3.36	-10.75	-8.95	-12.39
33	216.8	16	14.31104	17.81757	17.10037	16	-2.55	-11.2	-9.22	-12.49
35	216.72	17	15.31438	18.66216	17.08178	17	-2.97	-11.87	-9.64	-12.49
37	216.71	18	16.05017	19.23649	17.11896	18	-2.02	-11.83	-9.88	-12.42
39	216.77	19	16.41806	19.52365	17.2119	19	-2.62	-12.11	-9.89	-12.27
41	216.8	20	16.56856	19.67568	17.32342	20	-3.26	-12.31	-9.99	-12.18
43	216.8	21	16.65217	19.79392	17.39777	21	-3.41	-12.33	-10.07	-12.17
45	216.8	22	16.73579	19.87838	17.34201	22	-3.48	-12.15	-10.07	-12.18
47	216.79	23	16.80268	19.94595	17.30483	23	-3.38	-12.07	-10.04	-12.16
49	216.79	24	16.85284	19.94595	17.26766	24	-2.83	-11.84	-10	-12.05
51	216.79	25	16.91973	19.92905	17.19331	25	-2.22	-11.46	-9.92	-11.94
53	216.79	26	16.86957	19.91216	17.15613	26	-1.89	-11.11	-9.84	-11.84
55	216.74	27	16.8194	19.86149	17.10037	27	-1.78	-10.82	-9.74	-11.78
57	216.71	28	16.75251	19.8277	17.0632	28	-1.68	-10.57	-9.63	-11.75
59	216.72	29	16.75251	19.79392	16.98885	29	-1.26	-10.28	-9.51	-11.71
61	216.76	30	16.68562	19.69257	16.85874	30	-1.22	-9.98	-9.38	-11.68
63	216.8	31	16.63545	19.54054	16.7658	31	-1.21	-9.69	-9.25	-11.66
65	216.8	32	16.56856	19.30405	16.72862	32	-1.1	-9.39	-9.14	-11.71
67	216.8	33	16.46823	19.06757	16.57993	33	-0.37	-9.2	-9.05	-11.81
69	216.8	34	16.35117	18.83108	16.44981	34	-1.11	-9.69	-9.35	-12.33
71	216.8	35	16.26756	18.72973	16.30112	35	-2.62	-11.12	-9.98	-12.66
73	216.8	36	16.40134	19.08446	16.28253	36	-2.45	-11.19	-10.23	-12.71
75	216.78	37	16.70234	19.50676	16.37546	37	-2.67	-11.4	-10.23	-12.71
77	216.79	38	17.00334	19.76014	16.63569	38	-2.78	-12.1	-10.28	-12.64
79	216.73	39	17.25418	19.92905	16.89591	39	-2.79	-12.78	-10.37	-12.6
81	216.71	40	17.43813	19.99662	17.02602	40	-2.31	-12.29	-10.5	-12.53
83	216.75	41	17.53846	20.01351	17.04461	41	-2.12	-12.11	-10.63	-12.59
85	216.78	42	17.58863	20.08108	17.15613	42	-1.96	-12.09	-10.67	-12.72
87	216.82	43	17.62207	20.09797	17.19331	43	-1.81	-12.05	-10.68	-12.75
89	216.8	44	17.6388	20.09797	17.15613	44	-1.77	-11.9	-10.66	-12.71
91	216.81	45	17.62207	20.03041	17.2119	45	-1.36	-11.76	-10.62	-12.64
93	216.81	46	17.57191	19.94595	17.10037	46	-1.22	-11.63	-10.57	-12.48
95	216.81	47	17.52174	19.92905	17.04461	47	-1.3	-11.47	-10.45	-12.32
97	216.81	48	17.45485	19.89527	17.10037	48	-1.14	-11.29	-10.29	-12.24
99	216.81	49	17.38796	19.84459	17.13755	49	-0.69	-10.99	-10.13	-12.07
101	216.81	50	17.40468	19.81081	17.13755	50	-0.6	-10.66	-9.94	-11.93
103	216.71	51	17.32107	19.69257	17.13755	51	-0.52	-10.36	-9.76	-11.78
105	216.73	52	17.28763	19.60811	17.11896	52	-0.53	-10.03	-9.6	-11.65
107	216.78	53	17.18729	19.50676	17.15613	53	-0.37	-9.7	-9.45	-11.56
109	216.8	54	17.02007	19.23649	17.10037	54	-0.19	-9.35	-9.29	-11.52
111	216.8	55	16.80268	18.84797	17.02602	55	-0.02	-9.3	-9.25	-11.79

113	216.81	56	16.51839	18.49324	16.93309	56	-1.89	-10.19	-9.72	-12.34
115	216.81	57	16.31773	18.49324	16.95167	57	-1.8	-10.86	-10.23	-12.61
117	216.81	58	16.51839	18.89865	16.9145	58	-1.95	-11.1	-10.39	-12.7
119	216.81	59	16.91973	19.25338	17.0632	59	-1.77	-11.35	-10.43	-12.68
121	216.8	60	17.28763	19.54054	17.23048	60	-2.01	-12.28	-10.55	-12.63
123	216.81	61	17.53846	19.76014	17.43494	61	-2.58	-12.84	-10.7	-12.61
125	216.7	62	17.73913	19.92905	17.65799	62	-3.26	-12.96	-10.96	-12.63
127	216.71	63	17.83946	20.06419	17.75093	63	-3.73	-13.23	-11.15	-12.66
129	216.76	64	17.92308	20.01351	17.76952	64	-4.19	-13.41	-11.28	-12.66
131	216.8	65	17.97324	20.01351	17.88104	65	-4.27	-13.39	-11.32	-12.66
133	216.81	66	18.00669	20.06419	17.9368	66	-3.06	-13.13	-11.35	-12.67
135	216.81	67	17.98997	20.03041	17.95539	67	-2.65	-13.14	-11.28	-12.64
137	216.82	68	17.90635	19.91216	17.97398	68	-2.47	-12.8	-11.11	-12.57
139	216.82	69	17.90635	19.91216	17.88104	69	-2.3	-12.39	-10.89	-12.46
141	216.82	70	17.88963	19.96284	17.76952	70	-1.48	-12.1	-10.7	-12.39
143	216.81	71	17.87291	19.92905	17.7881	71	-1.25	-11.79	-10.54	-12.32
145	216.81	72	17.83946	19.92905	17.86245	72	-0.96	-11.52	-10.39	-12.28
147	216.82	73	17.77258	19.86149	17.86245	73	-0.82	-11.22	-10.27	-12.23
149	216.73	74	17.72241	19.77703	17.82528	74	-0.72	-10.84	-10.14	-12.15
151	216.71	75	17.68896	19.74324	17.76952	75	-0.64	-10.4	-9.96	-11.95
153	216.74	76	17.62207	19.57432	17.60223	76	-0.7	-10.07	-9.79	-11.77
155	216.79	77	17.50502	19.35473	17.50929	77	-0.6	-9.73	-9.65	-11.68
157	216.81	78	17.20401	19.05068	17.34201	78	-0.38	-9.42	-9.51	-11.65
159	216.82	79	16.78595	18.67905	17.26766	79	-1.78	-10.16	-9.67	-12.01
161	216.82	80	16.31773	18.32432	17.15613	80	-3.72	-11.06	-10.4	-12.29
163	216.82	81	16.18395	18.375	16.98885	81	-3.52	-11.16	-10.63	-12.35
165	216.82	82	16.50167	18.86486	17.08178	82	-3.06	-11.45	-10.64	-12.34
167	216.82	83	16.86957	19.30405	17.28625	83	-2.91	-12.04	-10.69	-12.25
169	216.82	84	17.22074	19.54054	17.41636	84	-3.02	-12.29	-10.8	-12.12
171	216.82	85	17.52174	19.70946	17.62082	85	-1.82	-12.8	-11.02	-12.11
173	216.83	86	17.72241	19.86149	17.76952	86	-2.63	-13.12	-11.19	-12.27
175	216.7	87	17.83946	19.92905	17.91822	87	-3.34	-13.43	-11.28	-12.37
177	216.73	88	17.9398	20.01351	17.9368	88	-3.44	-13.17	-11.38	-12.41
179	216.76	89	17.98997	19.99662	17.99257	89	-2.89	-12.91	-11.4	-12.38
181	216.79	90	18.00669	19.94595	17.86245	90	-3.01	-12.63	-11.31	-12.34
183	216.82	91	17.9398	19.89527	17.80669	91	-3.17	-12.4	-11.15	-12.31
185	216.82	92	17.92308	19.91216	17.89963	92	-2.99	-12.22	-10.98	-12.27
187	216.82	93	17.90635	19.96284	18.01115	93	-2.8	-12.17	-10.85	-12.26
189	216.83	94	17.92308	19.91216	18.02974	94	-2.57	-11.95	-10.71	-12.24
191	216.83	95	17.88963	19.91216	18.02974	95	-2.32	-11.57	-10.54	-12.2
193	216.83	96	17.83946	19.91216	17.99257	96	-1.53	-11.23	-10.4	-12.17
195	216.83	97	17.82274	19.8277	18.02974	97	-1.52	-10.88	-10.24	-12.09
197	216.83	98	17.7893	19.74324	17.97398	98	-1.25	-10.47	-10.1	-12.05
199	216.84	99	17.72241	19.64189	17.9368	99	-1.16	-10.13	-9.95	-11.97
201	216.85	100	17.57191	19.47297	17.88104	100	-0.95	-9.79	-9.8	-11.88

203	216.73	101	17.2709	19.23649	17.73234	101	-0.74	-9.45	-9.65	-11.84
205	216.74	102	16.93645	18.84797	17.67658	102	-0.62	-9.23	-9.54	-11.88
207	216.78	103	16.50167	18.30743	17.54647	103	-4.2	-10.37	-9.8	-12.52
209	216.82	104	16.10033	18.02027	17.41636	104	-4.35	-10.9	-10.3	-12.99
211	216.84	105	16.13378	18.35811	17.26766	105	-3.37	-10.97	-10.51	-13.04
213	216.83	106	16.48495	18.83108	17.41636	106	-3.26	-11.81	-10.66	-13.14
215	216.83	107	16.90301	19.18581	17.60223	107	-3.44	-12.6	-10.88	-13.21
217	216.83	108	17.2709	19.43919	17.69517	108	-3.78	-13	-11.03	-13.19
219	216.83	109	17.60535	19.625	17.86245	109	-4.26	-13.39	-11.14	-13.13
221	216.83	110	17.82274	19.69257	18.01115	110	-4.62	-13.14	-11.18	-13.05
223	216.83	111	17.92308	19.69257	18.06691	111	-4.45	-12.93	-11.17	-12.94
225	216.84	112	18.00669	19.72635	18.14126	112	-4.64	-12.73	-11.13	-12.87
227	216.85	113	18.05686	19.69257	18.17844	113	-4.55	-12.38	-11.02	-12.82
229	216.83	114	18.0903	19.69257	18.19703	114	-4.17	-12.19	-10.86	-12.76
231	216.74	115	18.12375	19.625	18.28996	115	-4.07	-12.06	-10.71	-12.7
233	216.74	116	18.12375	19.59122	18.21561	116	-3.87	-11.92	-10.57	-12.61
235	216.79	117	18.15719	19.625	18.2342	117	-3.56	-11.66	-10.45	-12.53
237	216.83	118	18.07358	19.59122	18.28996	118	-2.68	-11.39	-10.32	-12.45
239	216.85	119	17.98997	19.43919	18.40149	119	-2.31	-11.05	-10.19	-12.35
241	216.84	120	17.95652	19.40541	18.42007	120	-1.72	-10.6	-10.07	-12.25
243	216.84	121	17.87291	19.30405	18.32714	121	-1.51	-10.23	-9.92	-12.16
245	216.84	122	17.72241	19.08446	18.2342	122	-1.08	-9.89	-9.78	-12.06
247	216.84	123	17.43813	18.78041	18.2342	123	-0.84	-9.54	-9.63	-11.99
249	216.84	124	17.07023	18.34122	18.12268	124	-0.79	-9.27	-9.5	-11.98
251	216.84	125	16.65217	17.81757	17.89963	125	-4.05	-10.26	-9.73	-12.63
253	216.85	126	16.18395	17.42905	17.69517	126	-4.91	-11.15	-10.28	-13.21
255	216.86	127	16	17.69932	17.60223	127	-3.6	-11.11	-10.48	-13.13
257	216.86	128	16.36789	18.375	17.62082	128	-3.22	-11.46	-10.58	-13.08
259	216.75	129	16.85284	18.89865	17.80669	129	-3.32	-12.47	-10.77	-13.11
261	216.74	130	17.23746	19.2027	17.95539	130	-3.63	-13.07	-10.97	-13.12
263	216.78	131	17.55518	19.33784	18.10409	131	-3.98	-13.54	-11.12	-13.07
265	216.82	132	17.7893	19.45608	18.19703	132	-4.72	-13.53	-11.22	-12.99
267	216.85	133	17.97324	19.57432	18.3829	133	-5.3	-13.32	-11.27	-12.93
269	216.85	134	18.10702	19.625	18.56877	134	-6.46	-12.95	-11.27	-12.89
271	216.85	135	18.19064	19.64189	18.60595	135	-6.83	-12.69	-11.2	-12.83
273	216.85	136	18.20736	19.64189	18.58736	136	-6.91	-12.53	-11.09	-12.77
275	216.85	137	18.15719	19.60811	18.56877	137	-6.68	-12.41	-10.98	-12.73
277	216.85	138	18.20736	19.60811	18.60595	138	-6.49	-12.23	-10.89	-12.69
279	216.85	139	18.2408	19.59122	18.6803	139	-5.89	-12.36	-10.76	-12.63
281	216.85	140	18.22408	19.57432	18.69888	140	-4.85	-12.14	-10.63	-12.57
283	216.86	141	18.19064	19.45608	18.66171	141	-4.26	-11.76	-10.49	-12.52
285	216.87	142	18.14047	19.37162	18.6803	142	-3.35	-11.4	-10.37	-12.47
287	216.88	143	18.05686	19.33784	18.77323	143	-2.13	-10.99	-10.22	-12.42
289	216.78	144	18.02341	19.25338	18.79182	144	-1.92	-10.66	-10.08	-12.39
291	216.77	145	17.92308	19.08446	18.75465	145	-1.69	-10.36	-9.96	-12.37

293	216.81	146	17.75585	18.78041	18.69888	146	-1.36	-10.03	-9.82	-12.31
295	216.84	147	17.4214	18.44257	18.62454	147	-1.21	-9.71	-9.69	-12.26
297	216.87	148	16.93645	18.03716	18.47584	148	-1.13	-9.41	-9.56	-12.23
299	216.87	149	16.41806	17.41216	18.3829	149	-1.76	-9.45	-9.51	-12.35
301	216.86	150	15.88294	16.68581	18.15985	150	-5.1	-10.8	-9.92	-12.93
303	216.86	151	15.56522	16.56757	17.89963	151	-4.7	-11.12	-10.36	-13.07
305	216.86	152	15.79933	17.29392	17.69517	152	-3.82	-11.24	-10.49	-12.98
307	216.86	153	16.31773	18.10473	17.7881	153	-3.61	-11.56	-10.53	-12.94
309	216.87	154	16.80268	18.59459	17.97398	154	-3.55	-12.69	-10.72	-12.96
311	216.86	155	17.20401	18.91554	18.17844	155	-3.81	-13.14	-10.99	-12.99
313	216.87	156	17.58863	19.18581	18.36431	156	-3.79	-13.55	-11.2	-12.98
315	216.87	157	17.87291	19.37162	18.55019	157	-4.44	-13.86	-11.42	-12.94
317	216.88	158	18.02341	19.48986	18.60595	158	-5.08	-13.8	-11.49	-12.9
319	216.8	159	18.12375	19.54054	18.79182	159	-5.66	-13.44	-11.48	-12.87
321	216.83	160	18.20736	19.54054	18.829	160	-6.71	-12.98	-11.37	-12.84
323	216.87	161	18.2408	19.52365	18.86617	161	-7.42	-12.72	-11.22	-12.8
325	216.9	162	18.25753	19.48986	18.86617	162	-7.68	-12.6	-11.1	-12.74
327	216.89	163	18.2408	19.48986	18.88476	163	-7.33	-12.48	-11	-12.71
329	216.88	164	18.25753	19.50676	18.94052	164	-6.95	-12.37	-10.9	-12.67
331	216.88	165	18.2408	19.48986	18.9777	165	-6.17	-12.16	-10.79	-12.64
333	216.88	166	18.2408	19.45608	18.99628	166	-4.55	-11.85	-10.65	-12.58
335	216.88	167	18.20736	19.47297	19.01487	167	-3.72	-11.57	-10.51	-12.54
337	216.88	168	18.17391	19.33784	19.08922	168	-2.87	-11.24	-10.37	-12.49
339	216.89	169	18.15719	19.28716	19.07063	169	-2.2	-10.88	-10.22	-12.46
341	216.88	170	18.05686	19.16892	18.9777	170	-2.1	-10.57	-10.08	-12.41
343	216.89	171	17.88963	18.89865	18.9777	171	-2.03	-10.28	-9.96	-12.38
345	216.81	172	17.6388	18.56081	18.94052	172	-1.82	-9.96	-9.83	-12.34
347	216.82	173	17.23746	18.10473	18.79182	173	-1.55	-9.64	-9.69	-12.3
349	216.87	174	16.78595	17.5473	18.6803	174	-1.34	-9.35	-9.56	-12.29
351	216.91	175	16.23411	16.88851	18.49442	175	-2.64	-9.7	-9.58	-12.46
353	216.92	176	15.61538	16.22973	18.28996	176	-5.11	-11.31	-10.11	-12.79
355	216.91	177	15.39799	16.34797	18.0855	177	-4.28	-11.11	-10.47	-12.82
357	216.9	178	15.8495	17.17568	17.99257	178	-3.3	-11.19	-10.54	-12.8
359	216.89	179	16.41806	17.96959	18.10409	179	-2.89	-11.66	-10.62	-12.79
361	216.89	180	16.90301	18.51014	18.27138	180	-2.95	-12.35	-10.81	-12.81
363	216.89	181	17.2709	18.88176	18.47584	181	-3.51	-13.15	-11.07	-12.85
365	216.89	182	17.57191	19.13514	18.69888	182	-3.87	-13.73	-11.32	-12.88
367	216.89	183	17.83946	19.32095	18.81041	183	-4.61	-14.1	-11.49	-12.89
369	216.9	184	18.04013	19.4223	18.84758	184	-4.84	-14.08	-11.63	-12.89
371	216.9	185	18.19064	19.52365	18.9777	185	-4.98	-13.84	-11.59	-12.87
373	216.8	186	18.27425	19.55743	18.99628	186	-5.61	-13.22	-11.52	-12.85
375	216.77	187	18.30769	19.52365	19.07063	187	-6.66	-12.9	-11.43	-12.84
377	216.84	188	18.27425	19.52365	19.03346	188	-7.28	-12.6	-11.28	-12.81
379	216.9	189	18.27425	19.50676	19.07063	189	-7.14	-12.51	-11.12	-12.77
381	216.92	190	18.30769	19.48986	19.08922	190	-7.16	-12.34	-11	-12.74

383	216.93	191	18.30769	19.52365	19.18216	191	-6.59	-12.25	-10.88	-12.7
385	217.02	192	18.30769	19.48986	19.21933	192	-5.19	-11.99	-10.73	-12.66
387	216.92	193	18.29097	19.48986	19.20074	193	-4.07	-11.65	-10.57	-12.59
389	216.91	194	18.25753	19.38851	19.29368	194	-3.43	-11.34	-10.44	-12.56
391	216.9	195	18.20736	19.35473	19.27509	195	-3.34	-11.08	-10.31	-12.56
393	216.9	196	18.15719	19.23649	19.20074	196	-2.71	-10.72	-10.18	-12.52
395	216.9	197	18.02341	19.06757	19.14498	197	-2.25	-10.42	-10.06	-12.47
397	216.9	198	17.82274	18.76351	19.10781	198	-1.98	-10.11	-9.94	-12.46
399	216.9	199	17.45485	18.25676	19.10781	199	-1.77	-9.82	-9.82	-12.46
401	216.9	200	16.98662	17.66554	18.94052	200	-1.56	-9.53	-9.69	-12.46
403	216.9	201	16.48495	17.09122	18.71747	201	-1.34	-9.23	-9.55	-12.44
405	216.91	202	15.88294	16.41554	18.5316	202	-2.18	-9.45	-9.53	-12.57
407	216.91	203	15.28094	15.80743	18.28996	203	-5.58	-10.94	-10.02	-12.92
409	216.8	204	15.0301	16.01014	18.01115	204	-4.96	-11.08	-10.49	-13
411	216.8	205	15.46488	16.97297	17.9368	205	-4	-11.08	-10.62	-12.97
413	216.88	206	16.16722	17.81757	18.0855	206	-3.35	-11.38	-10.65	-12.92
415	216.93	207	16.71906	18.40878	18.27138	207	-3.35	-12.4	-10.78	-12.92
417	216.94	208	17.17057	18.83108	18.47584	208	-3.4	-13	-11.05	-12.93
419	216.95	209	17.57191	19.08446	18.77323	209	-4.06	-13.61	-11.31	-12.94
421	216.98	210	17.88963	19.28716	18.92193	210	-4.72	-13.99	-11.51	-12.93
423	216.93	211	18.05686	19.33784	19.05204	211	-5.08	-13.88	-11.66	-12.91
		212	18.14047	19.4223	19.16357	212	-5.52	-13.61	-11.68	-12.89
		213	18.22408	19.52365	19.21933	213	-6	-13.34	-11.59	-12.86
		214	18.29097	19.54054	19.29368	214	-6.91	-13.04	-11.49	-12.82
		215	18.27425	19.52365	19.29368	215	-7.4	-12.8	-11.35	-12.78
		216	18.27425	19.48986	19.31227	216	-7.13	-12.59	-11.26	-12.76
		217	18.29097	19.43919	19.36803	217	-6.73	-12.51	-11.12	-12.72
		218	18.30769	19.38851	19.29368	218	-5.45	-12.16	-10.96	-12.71
		219	18.29097	19.43919	19.33086	219	-4.89	-11.93	-10.82	-12.64
		220	18.30769	19.4223	19.38662	220	-5.35	-11.75	-10.68	-12.64
		221	18.27425	19.38851	19.46097	221	-4.46	-11.48	-10.55	-12.63
		222	18.2408	19.35473	19.47955	222	-3.18	-11.05	-10.42	-12.63
		223	18.15719	19.23649	19.44238	223	-2.9	-10.76	-10.29	-12.62
		224	18.07358	19.06757	19.53532	224	-2.61	-10.49	-10.16	-12.6
		225	17.92308	18.84797	19.44238	225	-2.41	-10.21	-10.03	-12.57
		226	17.62207	18.54392	19.25651	226	-2.36	-9.91	-9.91	-12.55
		227	17.22074	18.08784	19.08922	227	-2.05	-9.62	-9.77	-12.53
		228	16.75251	17.42905	18.95911	228	-1.82	-9.33	-9.63	-12.49
		229	16.18395	16.73649	18.69888	229	-1.57	-9.08	-9.52	-12.47
		230	15.61538	16.11149	18.51301	230	-3.61	-9.86	-9.67	-12.67
		231	15.14716	15.68919	18.30855	231	-6.95	-11.56	-10.34	-12.86
		232	15.1806	16.22973	18.06691	232	-5.75	-11.57	-10.82	-12.91
		233	15.79933	17.17568	18.12268	233	-4.95	-11.27	-10.9	-12.91
		234	16.43478	17.90203	18.42007	234	-4.01	-11.99	-10.87	-12.9
		235	16.86957	18.40878	18.64312	235	-3.6	-12.56	-11.07	-12.89

236	17.2709	18.78041	18.86617	236	-4.07	-13.3	-11.32	-12.92
237	17.62207	19.06757	19.07063	237	-4.56	-13.7	-11.49	-12.93
238	17.88963	19.25338	19.20074	238	-5.24	-13.74	-11.62	-12.93
239	18.10702	19.4223	19.34944	239	-5.7	-13.91	-11.74	-12.91
240	18.25753	19.55743	19.44238	240	-5.93	-13.89	-11.79	-12.91
241	18.35786	19.60811	19.44238	241	-5.77	-13.62	-11.72	-12.91
242	18.40803	19.625	19.53532	242	-6.25	-13.09	-11.61	-12.91
243	18.3913	19.57432	19.51673	243	-7.16	-12.92	-11.44	-12.89
244	18.40803	19.48986	19.57249	244	-6.86	-12.87	-11.3	-12.85
245	18.44147	19.52365	19.57249	245	-6.56	-12.61	-11.17	-12.8
246	18.3913	19.52365	19.73978	246	-6.51	-12.45	-11.04	-12.78
247	18.40803	19.48986	19.75836	247	-6.33	-12.29	-10.93	-12.73
248	18.37458	19.47297	19.8513	248	-6.07	-12.07	-10.82	-12.7
249	18.35786	19.4223	19.75836	249	-6.01	-11.81	-10.7	-12.67
250	18.34114	19.4223	19.72119	250	-5.44	-11.57	-10.58	-12.63
251	18.29097	19.35473	19.72119	251	-4.15	-11.28	-10.45	-12.6
252	18.25753	19.27027	19.7026	252	-4.27	-11.11	-10.33	-12.55
253	18.14047	19.06757	19.68401	253	-4.37	-10.91	-10.2	-12.52
254	17.92308	18.78041	19.60967	254	-4.37	-10.63	-10.06	-12.48
255	17.62207	18.42568	19.60967	255	-4.2	-10.38	-9.92	-12.42
256	17.23746	17.93581	19.51673	256	-3.53	-10.01	-9.79	-12.41
257	16.76923	17.29392	19.38662	257	-3.08	-9.68	-9.66	-12.41
258	16.301	16.56757	19.12639	258	-2.78	-9.4	-9.54	-12.39
259	15.86622	15.92568	18.86617	259	-3.69	-9.91	-9.63	-12.64
260	15.46488	15.60473	18.66171	260	-6.1	-11.69	-10.14	-13.06
261	15.48161	16.0777	18.42007	261	-5.76	-11.67	-10.56	-13.05
262	16.01672	17.05743	18.34572	262	-5.19	-11.48	-10.72	-12.99
263	16.61873	17.85135	18.5316	263	-4.77	-12.07	-10.75	-12.96
264	17.1204	18.35811	18.71747	264	-5.2	-12.89	-11.01	-12.98
265	17.50502	18.71284	18.90335	265	-5.26	-13.21	-11.18	-13.02
266	17.80602	19.03378	19.20074	266	-5.92	-13.43	-11.35	-13.03
267	18.05686	19.27027	19.36803	267	-6.57	-13.44	-11.4	-13.03
268	18.20736	19.37162	19.53532	268	-7.01	-13.74	-11.48	-13.02
269	18.30769	19.38851	19.68401	269	-7.23	-13.47	-11.6	-13.01
270	18.40803	19.45608	19.72119	270	-7.57	-13.18	-11.57	-12.99
271	18.44147	19.45608	19.73978	271	-7.67	-12.97	-11.45	-12.97
272	18.40803	19.35473	19.75836	272	-7.69	-12.72	-11.34	-12.95
273	18.40803	19.33784	19.88848	273	-7.71	-12.7	-11.22	-12.93
274	18.40803	19.33784	19.86989	274	-7.81	-12.54	-11.08	-12.91
275	18.3913	19.37162	19.96283	275	-8.08	-12.27	-10.93	-12.88
276	18.3913	19.30405	19.98141	276	-7.57	-12.12	-10.8	-12.87
277	18.35786	19.35473	19.90706	277	-7.28	-11.94	-10.7	-12.84
278	18.34114	19.32095	19.86989	278	-6.25	-11.77	-10.62	-12.81
279	18.25753	19.30405	19.96283	279	-5.04	-11.53	-10.53	-12.77
280	18.25753	19.21959	19.98141	280	-4.42	-11.21	-10.43	-12.74

281	18.19064	19.05068	19.96283	281	-4.2	-10.97	-10.31	-12.71
282	18.10702	18.81419	20	282	-4.03	-10.72	-10.19	-12.68
283	17.90635	18.52703	19.86989	283	-3.75	-10.46	-10.06	-12.64
284	17.55518	18.07095	19.7026	284	-3.8	-10.2	-9.92	-12.61
285	17.13712	17.51351	19.62825	285	-3.93	-9.95	-9.78	-12.56
286	16.70234	16.88851	19.44238	286	-3.76	-9.7	-9.65	-12.54
287	16.25084	16.26351	19.20074	287	-3.7	-9.45	-9.54	-12.51
288	15.83278	15.70608	18.95911	288	-3.19	-9.15	-9.42	-12.49
289	15.41472	15.13176	18.64312	289	-4.06	-9.67	-9.51	-12.67
290	15.06355	14.74324	18.32714	290	-7.59	-11.02	-10.1	-12.92
291	15.11371	15.25	18.14126	291	-7.25	-11.51	-10.66	-12.98
292	15.71572	16.33108	18.14126	292	-6.71	-12.15	-10.95	-12.99
293	16.38462	17.31081	18.43866	293	-7.34	-12.29	-11.06	-12.98
294	16.91973	18.03716	18.79182	294	-9.01	-12.56	-11.18	-12.99
295	17.33779	18.44257	19.12639	295	-9.17	-13.08	-11.25	-12.98
296	17.65552	18.7973	19.44238	296	-9.05	-13.63	-11.33	-12.97
297	17.90635	19.03378	19.60967	297	-9.3	-13.81	-11.48	-12.95
298	18.05686	19.16892	19.75836	298	-9.52	-13.83	-11.62	-12.94
299	18.19064	19.32095	19.83271	299	-9.12	-13.55	-11.68	-12.92
300	18.30769	19.32095	19.88848	300	-9.25	-13.26	-11.66	-12.89
301	18.35786	19.38851	19.96283	301	-9.67	-13.19	-11.66	-12.88
302	18.29097	19.30405	19.98141	302	-9.43	-13.18	-11.53	-12.83
303	18.2408	19.25338	20.07435	303	-8.79	-12.83	-11.33	-12.78
304	18.27425	19.23649	20.03717	304	-8.29	-12.55	-11.14	-12.74
305	18.27425	19.32095	20.07435	305	-8.01	-12.36	-10.99	-12.72
306	18.29097	19.25338	20.16729	306	-8.47	-12.11	-10.88	-12.68
307	18.27425	19.23649	20.1487	307	-8.32	-11.86	-10.81	-12.65
308	18.22408	19.25338	20.07435	308	-7.95	-11.62	-10.71	-12.62
309	18.20736	19.21959	20.05576	309	-7.32	-11.48	-10.6	-12.56
310	18.19064	19.16892	20	310	-5.54	-11.4	-10.52	-12.51
311	18.15719	19.06757	20	311	-5.02	-11.17	-10.41	-12.48
312	18.07358	18.89865	20	312	-4.68	-10.88	-10.28	-12.44
313	17.88963	18.64527	19.8513	313	-4.37	-10.6	-10.14	-12.44
314	17.58863	18.32432	19.72119	314	-4.09	-10.36	-10	-12.44
315	17.22074	17.80068	19.5539	315	-4.26	-10.07	-9.84	-12.43
316	16.85284	17.10811	19.4052	316	-4.34	-9.79	-9.7	-12.42
317	16.40134	16.38176	19.21933	317	-4.13	-9.49	-9.56	-12.4
318	15.98328	15.80743	19.01487	318	-4.93	-9.84	-9.61	-12.48
319	15.699	15.4527	18.73606	319	-8.92	-11.42	-10.22	-12.61
320	15.63211	15.79054	18.47584	320	-8.65	-11.98	-10.96	-12.63
321	16.06689	16.75338	18.47584	321	-8.73	-11.64	-11.21	-12.65
322	16.68562	17.59797	18.77323	322	-9.07	-12.16	-11.38	-12.7
323	17.13712	18.1723	19.07063	323	-9.88	-12.52	-11.62	-12.73
324	17.43813	18.54392	19.21933	324	-10.36	-12.96	-12.15	-12.75
325	17.73913	18.81419	19.38662	325	-10.75	-13.51	-12.83	-12.75

326	17.98997	19.05068	19.53532	326	-10.75	-13.46	-13.46	-12.72
327	18.12375	19.2027	19.60967	327	-10.93	-13.18	-13.43	-12.69
328	18.20736	19.28716	19.79554	328	-10.55	-12.83	-13.08	-12.66
329	18.22408	19.32095	19.88848	329	-10.08	-12.61	-12.63	-12.63
330	18.2408	19.32095	19.88848	330	-9.68	-12.32	-12.12	-12.62
331	18.27425	19.37162	20	331	-8.92	-12.13	-11.76	-12.59
332	18.32441	19.40541	20.07435	332	-8.58	-11.94	-11.52	-12.56
333	18.30769	19.35473	20.11152	333	-8.31	-11.77	-11.31	-12.52
334	18.35786	19.32095	20.11152	334	-7.91	-11.56	-11.14	-12.48
335	18.37458	19.35473	20.09294	335	-7.54	-11.29	-11	-12.46
336	18.37458	19.30405	20.1487	336	-6.96	-11.02	-10.87	-12.43
337	18.30769	19.16892	20.13011	337	-6.43	-10.84	-10.75	-12.41
338	18.2408	19.11824	20.13011	338	-6.1	-10.71	-10.62	-12.38
339	18.15719	19.13514	20.01859	339	-5.42	-10.66	-10.49	-12.36
340	18.00669	18.98311	20	340	-4.89	-10.47	-10.35	-12.37
341	17.85619	18.72973	19.94424	341	-4.42	-10.18	-10.2	-12.35
342	17.52174	18.39189	19.90706	342	-4.25	-9.88	-10.05	-12.32
343	17.10368	17.93581	19.79554	343	-4.5	-9.49	-9.87	-12.26
344	16.68562	17.36149	19.59108	344	-4.82	-9.52	-9.76	-12.27
345	16.20067	16.75338	19.38662	345	-8.8	-10.52	-10.32	-12.39
346	15.8495	16.55068	19.08922	346	-9.63	-10.99	-11.43	-12.48
347	16.01672	17.10811	18.92193	347	-8.84	-11.45	-11.63	-12.54
348	16.51839	17.88514	19.05204	348	-8.21	-11.54	-11.84	-12.58
349	17.10368	18.45946	19.27509	349	-8.51	-12.04	-12.21	-12.63
350	17.52174	18.84797	19.49814	350	-8.83	-12.58	-12.56	-12.68
351	17.75585	19.13514	19.81413	351	-9.17	-12.73	-12.98	-12.7
352	18.00669	19.32095	20.01859	352	-9.31	-12.7	-13.26	-12.71
353	18.19064	19.43919	20.13011	353	-9.62	-12.77	-13.52	-12.7
354	18.27425	19.50676	20.33457	354	-9.46	-12.74	-13.69	-12.66
355	18.32441	19.60811	20.33457	355	-9.36	-12.58	-13.63	-12.63
356	18.30769	19.65878	20.4461	356	-9.11	-12.4	-13.39	-12.59
357	18.29097	19.64189	20.39033	357	-8.84	-12.14	-12.94	-12.57
358	18.29097	19.64189	20.42751	358	-8.45	-12.08	-12.59	-12.54
359	18.27425	19.67568	20.52045	359	-7.83	-11.81	-12.22	-12.51
360	18.29097	19.69257	20.46468	360	-7.57	-11.69	-12.04	-12.51
361	18.27425	19.67568	20.55762	361	-7.4	-11.55	-11.84	-12.51
362	18.2408	19.625	20.61338	362	-6.99	-11.28	-11.65	-12.49
363	18.19064	19.59122	20.50186	363	-6.33	-11	-11.43	-12.47
364	18.15719	19.55743	20.46468	364	-6.61	-10.82	-11.21	-12.45
365	18.15719	19.47297	20.52045	365	-6.23	-10.74	-11.05	-12.42
366	18.10702	19.40541	20.53903	366	-5.81	-10.59	-10.87	-12.38
367	18.02341	19.27027	20.46468	367	-5.53	-10.36	-10.71	-12.36
368	17.88963	19.11824	20.27881	368	-5.06	-10.15	-10.54	-12.33
369	17.70569	18.93243	20.18587	369	-5.27	-9.95	-10.37	-12.29
370	17.4214	18.64527	20.03717	370	-5.05	-9.62	-10.21	-12.27

371	17.02007	18.27365	19.8513	371	-4.61	-9.33	-10.04	-12.22
372	16.63545	17.80068	19.66543	372	-7.34	-10.06	-10.15	-12.26
373	16.26756	17.44595	19.34944	373	-11.68	-10.57	-11.15	-12.38
374	16.13378	17.59797	19.08922	374	-10.9	-10.99	-11.51	-12.49
375	16.43478	18.18919	19.18216	375	-10.08	-11.48	-11.43	-12.58
376	16.88629	18.81419	19.44238	376	-9.54	-11.69	-11.43	-12.62
377	17.30435	19.16892	19.8513	377	-8.83	-12.19	-11.44	-12.64
378	17.68896	19.4223	20.24164	378	-8.63	-12.58	-11.65	-12.65
379	18.00669	19.625	20.57621	379	-8.9	-12.65	-12.09	-12.66
380	18.25753	19.76014	20.79926	380	-9.23	-13.04	-12.61	-12.66
381	18.42475	19.84459	20.92937	381	-9.54	-13.47	-13	-12.69
382	18.55853	19.91216	20.98513	382	-9.34	-13.63	-13.34	-12.71
383	18.6087	19.92905	21.04089	383	-9.35	-13.78	-13.57	-12.72
384	18.6087	19.99662	21.05948	384	-9.2	-13.79	-13.74	-12.71
385	18.6087	19.96284	21.0223	385	-9.05	-13.84	-13.75	-12.69
386	18.59197	20.03041	20.94796	386	-9.04	-13.96	-13.99	-12.68
387	18.59197	19.99662	20.96654	387	-9.11	-13.8	-13.98	-12.66
388	18.55853	19.89527	20.83643	388	-9.17	-13.76	-13.57	-12.64
389	18.52508	19.87838	20.66914	389	-9.08	-13.48	-13.21	-12.62
390	18.44147	19.81081	20.65056	390	-8.98	-13.24	-13.1	-12.6
391	18.32441	19.74324	20.74349	391	-8.75	-13.03	-12.84	-12.58
392	18.20736	19.69257	20.68773	392	-8.4	-12.9	-12.62	-12.57
393	18.12375	19.65878	20.61338	393	-7.98	-12.75	-12.52	-12.56
394	18.07358	19.625	20.65056	394	-7.66	-12.57	-12.32	-12.53
395	18.10702	19.52365	20.5948	395	-7.46	-12.33	-12.14	-12.54
396	18.10702	19.52365	20.63197	396	-7.11	-12.15	-11.87	-12.56
397	18.0903	19.48986	20.66914	397	-6.74	-11.88	-11.58	-12.57
398	18.05686	19.43919	20.65056	398	-6.45	-11.63	-11.34	-12.57
399	18.02341	19.40541	20.53903	399	-6.11	-11.33	-11.14	-12.55
400	17.95652	19.32095	20.48327	400	-5.72	-11.06	-10.98	-12.54
401	17.90635	19.32095	20.31599	401	-5.52	-10.86	-10.84	-12.53
402	17.75585	19.13514	20.18587	402	-5.17	-10.65	-10.68	-12.49
403	17.52174	18.88176	20.07435	403	-4.87	-10.39	-10.54	-12.4
404	17.23746	18.54392	19.92565	404	-4.76	-10.11	-10.4	-12.32
405	16.91973	18.03716	19.73978	405	-3.92	-9.85	-10.26	-12.29
406	16.51839	17.59797	19.46097	406	-3.45	-9.58	-10.14	-12.26
407	16.05017	17.19257	19.08922	407	-3.93	-9.42	-10.01	-12.23
408	15.61538	16.73649	18.64312	408	-7.28	-10.13	-10.34	-12.32
409	15.28094	16.53378	18.17844	409	-8.91	-10.69	-10.86	-12.46
410	15.3311	17.10811	18.04833	410	-8.83	-10.93	-11.07	-12.55
411	15.91639	18.00338	18.34572	411	-8.48	-11.12	-11.24	-12.61
412	16.60201	18.64527	18.94052	412	-8.16	-11.71	-11.39	-12.64
413	17.1204	19.06757	19.64684	413	-8.17	-12.41	-11.43	-12.66
414	17.55518	19.38851	20.1487	414	-8.35	-12.63	-11.76	-12.68
415	17.9398	19.60811	20.55762	415	-8.89	-12.88	-12.35	-12.69

416	18.22408	19.79392	20.83643	416	-9.13	-13.25	-12.78	-12.73
417	18.3913	19.89527	20.92937	417	-9.32	-13.54	-13	-12.77
418	18.47492	19.92905	21.04089	418	-9.13	-13.67	-13.27	-12.78
419	18.55853	19.94595	21.11524	419	-9.33	-13.71	-13.49	-12.77
420	18.64214	19.94595	21.18959	420	-9.13	-13.81	-13.58	-12.76
421	18.64214	19.94595	21.18959	421	-8.79	-13.82	-13.58	-12.75

Deli_exp_B

Experiment type: Deliquescence experiment. The regolith type is JSC Mars-1 in this experiment, with a thickness of 2 cm. The initial weight was 373.07 g. Calcium perchlorate was added at 1 wt% increasing the mass to 376.44 g. The humidity buffer was LiCl which has a RH of 11.31 at 0 degrees Celsius. Temperature around the sample was controlled by the chiller, and the sample went from -3 to 6 degrees Celsius.

Thermocouple: 1= upper atmosphere 2= lower atmosphere 3= humidity buffer 4= sample

Hygrometers: 2= sample 3= atmosphere 4= humidity buffer

Mass		RH				T				
Min.	Mass	Min.	Ch02	Ch03	Ch04	Min.	Ch01	Ch02	Ch03	Ch04
0	388.02	0	27.1738	4.851003	9.752066	0	2.75	-1.98	-3.29	-1.76
30	391.02	1	25.86364	5.094556	9.738292	1	2.75	-2.14	-3.3	-1.78
45	391.19	2	24.17914	5.481375	9.669421	2	2.75	-2.05	-3.31	-1.79
188	391.73	3	23.24332	5.796562	9.683196	3	2.75	-2.04	-3.3	-1.77
104	391.81	4	22.54813	6.054441	9.738292	4	2.75	-1.93	-3.3	-1.76
517	392.66	5	21.93316	6.283668	9.490358	5	2.76	-2.05	-3.3	-1.77
555	392.73	6	21.09091	6.613181	8.746556	6	2.75	-1.89	-3.31	-1.76
1329	393.39	7	20.40909	6.91404	7.782369	7	2.74	-1.93	-3.31	-1.79
1367	393.41	8	20.26203	7.057307	7.162534	8	2.75	-1.96	-3.3	-1.79
1381	393.41	9	20.42246	7.12894	6.831956	9	2.75	-1.92	-3.3	-1.78
1500	393.47	10	20.71658	7.12894	6.652893	10	2.75	-1.97	-3.3	-1.79
1512	393.49	11	21.14439	7.014327	6.694215	11	2.75	-1.97	-3.3	-1.8
1603	393.53	12	21.55882	6.856734	7.024793	12	2.74	-1.83	-3.31	-1.82
		13	21.91979	6.641834	7.603306	13	2.73	-1.96	-3.31	-1.81
		14	22.32086	6.441261	8.595041	14	2.73	-2.08	-3.32	-1.81
		15	22.72193	6.297994	9.710744	15	2.73	-2.16	-3.32	-1.8
		16	23.10963	6.197708	10.34435	16	2.73	-2.03	-3.32	-1.81
		17	23.45722	6.083095	10.61983	17	2.73	-1.97	-3.32	-1.81

18	23.79144	5.982808	10.64738	18	2.73	-1.95	-3.32	-1.82
19	24.1123	5.939828	10.56474	19	2.72	-2.11	-3.32	-1.82
20	24.36631	5.896848	10.45455	20	2.71	-2.06	-3.33	-1.82
21	24.59358	5.853868	10.27548	21	2.71	-1.96	-3.33	-1.81
22	24.78075	5.810888	10.11019	22	2.71	-2.04	-3.32	-1.82
23	24.94118	5.839542	9.972452	23	2.72	-2.08	-3.33	-1.82
24	25.11497	5.796562	9.862259	24	2.71	-2.02	-3.33	-1.82
25	25.23529	5.825215	9.793388	25	2.71	-2.04	-3.33	-1.81
26	25.30214	5.825215	9.669421	26	2.71	-2.1	-3.33	-1.81
27	25.39572	5.810888	9.545455	27	2.72	-1.96	-3.32	-1.81
28	25.50267	5.825215	9.435262	28	2.72	-1.88	-3.32	-1.81
29	25.58289	5.782235	9.435262	29	2.71	-2.02	-3.33	-1.81
30	25.64973	5.782235	9.393939	30	2.72	-1.97	-3.32	-1.8
31	25.74332	5.782235	9.352617	31	2.72	-1.99	-3.32	-1.79
32	25.86364	5.739255	9.256198	32	2.72	-1.96	-3.32	-1.8
33	25.95722	5.739255	9.201102	33	2.71	-1.96	-3.32	-1.82
34	25.98396	5.767908	9.132231	34	2.7	-2.02	-3.33	-1.83
35	26.09091	5.767908	9.049587	35	2.7	-1.98	-3.33	-1.84
36	26.15775	5.753582	9.008264	36	2.71	-1.98	-3.32	-1.8
37	26.21123	5.753582	8.898072	37	2.71	-1.98	-3.32	-1.79
38	26.17112	5.696275	8.884298	38	2.7	-1.97	-3.33	-1.8
39	26.2246	5.653295	8.870523	39	2.7	-2	-3.33	-1.79
40	26.35829	5.681948	8.815427	40	2.69	-2.08	-3.34	-1.8
41	26.35829	5.638968	8.760331	41	2.69	-1.98	-3.33	-1.8
42	26.27807	5.624642	8.705234	42	2.68	-1.94	-3.34	-1.83
43	26.34492	5.610315	8.705234	43	2.68	-2.09	-3.34	-1.82
44	26.42513	5.638968	8.663912	44	2.69	-2.05	-3.34	-1.82
45	26.42513	5.624642	8.719008	45	2.69	-1.96	-3.35	-1.82
46	26.41176	5.638968	8.677686	46	2.68	-2.02	-3.35	-1.83
47	26.4385	5.595989	8.650138	47	2.68	-1.95	-3.34	-1.81
48	26.49198	5.638968	8.636364	48	2.68	-2.12	-3.35	-1.82
49	26.57219	5.653295	8.567493	49	2.68	-2.05	-3.34	-1.81
50	26.58556	5.610315	8.553719	50	2.69	-2.01	-3.35	-1.82
51	26.53209	5.610315	8.553719	51	2.68	-2.01	-3.35	-1.82
52	26.54545	5.595989	8.512397	52	2.69	-2.06	-3.35	-1.82
53	26.59893	5.581662	8.498623	53	2.68	-1.94	-3.35	-1.83
54	26.67914	5.595989	8.4573	54	2.68	-2.15	-3.35	-1.82
55	26.71925	5.638968	8.38843	55	2.68	-2.05	-3.36	-1.81
56	26.75936	5.624642	8.360882	56	2.66	-2.06	-3.36	-1.82
57	26.7861	5.581662	8.360882	57	2.66	-2.12	-3.36	-1.82
58	26.81283	5.581662	8.402204	58	2.66	-1.98	-3.36	-1.82
59	26.81283	5.553009	8.333333	59	2.67	-2.07	-3.36	-1.83
60	26.79947	5.567335	8.305785	60	2.66	-1.98	-3.36	-1.83
61	26.77273	5.610315	8.264463	61	2.66	-2.08	-3.37	-1.84
62	26.8262	5.595989	8.292011	62	2.66	-2.03	-3.37	-1.85

63	26.85294	5.538682	8.292011	63	2.66	-2.03	-3.37	-1.84
64	26.87968	5.524355	8.250689	64	2.65	-2	-3.38	-1.86
65	26.83957	5.510029	8.236915	65	2.66	-2.1	-3.37	-1.85
66	26.85294	5.553009	8.168044	66	2.66	-2.12	-3.37	-1.84
67	26.85294	5.553009	8.099174	67	2.66	-2	-3.36	-1.86
68	26.8262	5.524355	8.168044	68	2.66	-2.08	-3.37	-1.86
69	26.89305	5.524355	8.099174	69	2.66	-2.07	-3.37	-1.84
70	26.95989	5.524355	8.030303	70	2.66	-2.12	-3.37	-1.83
71	27.02674	5.524355	8.002755	71	2.66	-2.14	-3.37	-1.84
72	27.04011	5.510029	8.016529	72	2.65	-2.05	-3.38	-1.83
73	27.01337	5.495702	7.988981	73	2.65	-2.04	-3.37	-1.84
74	27	5.495702	7.92011	74	2.64	-2.03	-3.37	-1.85
75	27.04011	5.510029	7.961433	75	2.65	-2.09	-3.38	-1.85
76	27.01337	5.495702	8.002755	76	2.64	-2	-3.38	-1.87
77	27.02674	5.467049	8.002755	77	2.64	-2.12	-3.38	-1.87
78	27.08021	5.452722	7.961433	78	2.64	-2.1	-3.38	-1.85
79	27.10695	5.452722	7.933884	79	2.64	-2.04	-3.38	-1.85
80	27.12032	5.495702	7.906336	80	2.63	-2.1	-3.38	-1.84
81	27.10695	5.510029	7.92011	81	2.64	-2.12	-3.38	-1.83
82	27.09358	5.467049	7.92011	82	2.64	-2	-3.38	-1.84
83	27.1738	5.452722	7.92011	83	2.65	-2.1	-3.37	-1.83
84	27.24064	5.452722	7.933884	84	2.65	-2.07	-3.37	-1.84
85	27.22727	5.452722	7.92011	85	2.64	-2.11	-3.38	-1.86
86	27.18717	5.481375	7.865014	86	2.63	-2.02	-3.38	-1.86
87	27.16043	5.438395	7.892562	87	2.62	-2.07	-3.38	-1.87
88	27.18717	5.467049	7.92011	88	2.63	-2.17	-3.38	-1.87
89	27.16043	5.438395	7.906336	89	2.63	-2.04	-3.38	-1.87
90	27.13369	5.452722	7.947658	90	2.63	-2.06	-3.38	-1.87
91	27.16043	5.481375	7.947658	91	2.63	-2.12	-3.38	-1.86
92	27.2139	5.481375	7.961433	92	2.64	-2.09	-3.38	-1.87
93	27.20053	5.438395	7.961433	93	2.63	-1.97	-3.38	-1.85
94	27.14706	5.409742	7.961433	94	2.62	-2.01	-3.39	-1.86
95	27.16043	5.467049	7.933884	95	2.62	-2.04	-3.38	-1.86
96	27.2139	5.467049	7.933884	96	2.62	-2.04	-3.39	-1.86
97	27.26738	5.467049	7.892562	97	2.61	-2	-3.39	-1.88
98	27.26738	5.424069	7.906336	98	2.6	-2.03	-3.4	-1.9
99	27.26738	5.438395	7.878788	99	2.61	-2.04	-3.39	-1.89
100	27.25401	5.467049	7.906336	100	2.6	-2.05	-3.4	-1.89
101	27.22727	5.467049	7.878788	101	2.6	-2.2	-3.4	-1.9
102	27.26738	5.452722	7.878788	102	2.6	-2	-3.4	-1.89
103	27.22727	5.438395	7.85124	103	2.58	-2.06	-3.41	-1.9
104	27.25401	5.409742	7.85124	104	2.58	-2.15	-3.42	-1.91
105	27.24064	5.395415	7.878788	105	2.58	-2.13	-3.41	-1.91
106	27.2139	5.409742	7.837466	106	2.58	-2	-3.42	-1.91
107	27.24064	5.424069	7.878788	107	2.57	-2.15	-3.43	-1.9

108	27.29412	5.409742	7.865014	108	2.57	-2.14	-3.43	-1.9
109	27.25401	5.409742	7.823691	109	2.57	-2.06	-3.43	-1.9
110	27.24064	5.424069	7.809917	110	2.57	-2.07	-3.42	-1.92
111	27.25401	5.452722	7.878788	111	2.58	-2.1	-3.41	-1.91
112	27.24064	5.438395	7.878788	112	2.58	-2.07	-3.41	-1.9
113	27.25401	5.395415	7.796143	113	2.57	-2.07	-3.41	-1.91
114	27.28075	5.409742	7.796143	114	2.58	-2.11	-3.41	-1.91
115	27.32086	5.409742	7.727273	115	2.57	-2.21	-3.41	-1.92
116	27.32086	5.395415	7.713499	116	2.57	-2.17	-3.41	-1.92
117	27.29412	5.409742	7.713499	117	2.57	-2.12	-3.41	-1.91
118	27.33422	5.438395	7.699725	118	2.57	-2.02	-3.41	-1.93
119	27.33422	5.438395	7.68595	119	2.57	-2.05	-3.41	-1.93
120	27.3877	5.424069	7.754821	120	2.56	-2.14	-3.41	-1.93
121	27.37433	5.438395	7.754821	121	2.56	-2.01	-3.41	-1.93
122	27.36096	5.438395	7.727273	122	2.57	-2.15	-3.41	-1.93
123	27.32086	5.381089	7.782369	123	2.55	-2.18	-3.42	-1.93
124	27.33422	5.366762	7.768595	124	2.55	-2.08	-3.42	-1.93
125	27.37433	5.409742	7.754821	125	2.55	-2.08	-3.43	-1.94
126	27.3877	5.395415	7.68595	126	2.54	-2.07	-3.42	-1.94
127	27.33422	5.409742	7.727273	127	2.54	-2.09	-3.43	-1.94
128	27.30749	5.409742	7.823691	128	2.54	-2.12	-3.43	-1.94
129	27.36096	5.424069	7.796143	129	2.54	-2.12	-3.43	-1.93
130	27.40107	5.467049	7.699725	130	2.54	-2.04	-3.43	-1.92
131	27.3877	5.452722	7.68595	131	2.54	-2.1	-3.43	-1.91
132	27.41444	5.409742	7.672176	132	2.54	-2.22	-3.43	-1.92
133	27.33422	5.438395	7.658402	133	2.53	-2.2	-3.43	-1.91
134	27.36096	5.395415	7.644628	134	2.54	-2.11	-3.43	-1.92
135	27.40107	5.395415	7.672176	135	2.53	-2.12	-3.43	-1.91
136	27.40107	5.366762	7.741047	136	2.53	-2.16	-3.43	-1.91
137	27.41444	5.366762	7.727273	137	2.53	-2.06	-3.43	-1.92
138	27.45455	5.366762	7.68595	138	2.52	-2.1	-3.43	-1.92
139	27.46791	5.381089	7.644628	139	2.52	-2.19	-3.44	-1.92
140	27.41444	5.424069	7.699725	140	2.53	-2.15	-3.43	-1.91
141	27.36096	5.352436	7.658402	141	2.52	-2.07	-3.43	-1.93
142	27.42781	5.352436	7.672176	142	2.53	-2.12	-3.42	-1.93
143	27.44118	5.381089	7.658402	143	2.51	-2.31	-3.43	-1.96
144	27.40107	5.409742	7.61708	144	2.53	-2.65	-3.42	-1.94
145	27.3877	5.409742	7.672176	145	2.53	-2.35	-3.42	-1.94
146	27.40107	5.352436	7.727273	146	2.52	-2.11	-3.42	-1.96
147	27.45455	5.409742	7.658402	147	2.52	-2.13	-3.43	-1.95
148	27.3877	5.424069	7.658402	148	2.51	-2.11	-3.43	-1.95
149	27.36096	5.424069	7.630854	149	2.5	-2.18	-3.43	-1.95
150	27.41444	5.395415	7.589532	150	2.5	-2.09	-3.44	-1.94
151	27.45455	5.352436	7.61708	151	2.5	-2.07	-3.44	-1.96
152	27.41444	5.352436	7.644628	152	2.49	-2.2	-3.45	-1.97

153	27.42781	5.381089	7.658402	153	2.49	-2.04	-3.44	-1.96
154	27.36096	5.395415	7.603306	154	2.51	-2.3	-3.44	-1.94
155	27.40107	5.352436	7.630854	155	2.53	-2.15	-3.43	-1.95
156	27.44118	5.381089	7.644628	156	2.54	-2.14	-3.43	-1.94
157	27.46791	5.409742	7.644628	157	2.57	-2.15	-3.43	-1.95
158	27.41444	5.395415	7.658402	158	2.58	-2.32	-3.42	-1.94
159	27.41444	5.366762	7.630854	159	2.56	-2.19	-3.43	-1.94
160	27.41444	5.381089	7.603306	160	2.51	-2.04	-3.44	-1.96
161	27.3877	5.381089	7.658402	161	2.47	-2.04	-3.44	-1.94
162	27.41444	5.381089	7.699725	162	2.41	-2.14	-3.45	-1.95
163	27.42781	5.381089	7.630854	163	2.34	-2.13	-3.45	-1.96
164	27.48128	5.381089	7.644628	164	2.26	-2.32	-3.45	-1.97
165	27.48128	5.395415	7.672176	165	2.19	-2.32	-3.46	-1.96
166	27.46791	5.409742	7.589532	166	2.11	-2.41	-3.46	-1.97
167	27.41444	5.424069	7.561983	167	2.05	-2.28	-3.47	-1.99
168	27.44118	5.409742	7.534435	168	1.97	-2.42	-3.48	-2
169	27.41444	5.352436	7.534435	169	1.89	-2.23	-3.49	-2.01
170	27.40107	5.352436	7.561983	170	1.81	-2.29	-3.52	-2
171	27.36096	5.381089	7.589532	171	1.74	-2.37	-3.5	-1.99
172	27.40107	5.438395	7.658402	172	1.66	-2.29	8.47	5.32
173	27.44118	5.395415	7.630854	173	1.6	-2.63	23.84	23.32
174	27.42781	5.452722	7.630854	174	1.54	-2.59	23.55	26.68
175	27.41444	5.409742	7.644628	175	1.48	-2.54	24.29	23.64
176	27.40107	5.424069	7.630854	176	1.44	-2.38	24.37	12.19
177	27.3877	5.438395	7.658402	177	1.4	-2.62	-3.62	-2.12
178	27.45455	5.424069	7.61708	178	1.35	-2.53	-3.67	-2.16
179	27.44118	5.438395	7.589532	179	1.28	-2.62	-3.71	-2.22
180	27.42781	5.424069	7.61708	180	1.24	-2.66	-3.72	-2.22
181	27.46791	5.409742	7.658402	181	1.2	-2.61	-3.73	-2.22
182	27.45455	5.366762	7.644628	182	1.16	-2.63	-3.73	-2.21
183	27.45455	5.381089	7.61708	183	1.13	-2.83	-3.72	-2.21
184	27.42781	5.366762	7.61708	184	1.08	-2.7	-3.73	-2.23
185	27.46791	5.366762	7.589532	185	1.06	-2.71	-3.73	-2.23
186	27.45455	5.395415	7.630854	186	1.02	-3	-3.72	-2.22
187	27.44118	5.409742	7.630854	187	1.01	-2.98	-3.71	-2.21
188	27.40107	5.395415	7.630854	188	0.97	-2.69	-3.72	-2.2
189	27.41444	5.395415	7.589532	189	0.93	-2.65	-3.75	-2.23
190	27.42781	5.438395	7.603306	190	0.89	-2.63	-3.74	-2.25
191	27.48128	5.424069	7.603306	191	0.87	-2.71	-3.74	-2.25
192	27.46791	5.424069	7.644628	192	0.83	-2.66	-3.75	-2.25
193	27.48128	5.395415	7.644628	193	0.81	-2.62	-3.75	-2.26
194	27.46791	5.352436	7.658402	194	0.78	-2.49	-3.76	-2.27
195	27.48128	5.366762	7.589532	195	0.75	-2.52	-3.77	-2.26
196	27.42781	5.381089	7.61708	196	0.73	-2.43	-3.77	-2.27
197	27.3877	5.424069	7.61708	197	0.7	-2.61	-3.78	-2.27

198	27.40107	5.438395	7.644628	198	0.68	-2.62	-3.78	-2.28
199	27.44118	5.424069	7.644628	199	0.65	-2.51	-3.79	-2.29
200	27.42781	5.424069	7.589532	200	0.65	-2.68	-3.8	-2.27
201	27.41444	5.424069	7.589532	201	0.63	-2.74	-3.8	-2.25
202	27.41444	5.424069	7.575758	202	0.61	-2.69	-3.81	-2.27
203	27.41444	5.395415	7.603306	203	0.6	-2.67	-3.81	-2.26
204	27.45455	5.366762	7.658402	204	0.59	-2.79	-3.81	-2.26
205	27.40107	5.409742	7.61708	205	0.57	-2.65	-3.81	-2.27
206	27.40107	5.452722	7.644628	206	0.55	-2.67	-3.82	-2.28
207	27.40107	5.395415	7.644628	207	0.52	-2.54	-3.82	-2.3
208	27.3877	5.395415	7.630854	208	0.51	-2.68	-3.83	-2.31
209	27.45455	5.395415	7.603306	209	0.49	-2.77	-3.84	-2.3
210	27.46791	5.395415	7.61708	210	0.48	-2.74	-3.84	-2.33
211	27.45455	5.438395	7.644628	211	0.46	-2.69	-3.85	-2.33
212	27.45455	5.438395	7.630854	212	0.44	-2.7	-3.86	-2.34
213	27.44118	5.452722	7.644628	213	0.43	-2.85	-3.87	-2.34
214	27.44118	5.409742	7.589532	214	0.41	-2.61	-3.87	-2.35
215	27.41444	5.452722	7.644628	215	0.4	-2.74	-3.87	-2.35
216	27.48128	5.467049	7.630854	216	0.38	-2.71	-3.88	-2.36
217	27.48128	5.452722	7.68595	217	0.35	-2.65	-3.89	-2.37
218	27.41444	5.452722	7.699725	218	0.34	-2.71	-3.9	-2.38
219	27.40107	5.409742	7.699725	219	0.33	-2.71	-3.9	-2.37
220	27.37433	5.424069	7.672176	220	0.32	-2.79	-3.9	-2.38
221	27.42781	5.409742	7.603306	221	0.32	-2.75	-3.9	-2.38
222	27.49465	5.381089	7.630854	222	0.29	-2.58	-3.91	-2.4
223	27.44118	5.424069	7.68595	223	0.29	-2.74	-3.92	-2.4
224	27.42781	5.409742	7.713499	224	0.26	-2.8	-3.92	-2.39
225	27.45455	5.381089	7.741047	225	0.26	-2.86	-3.93	-2.41
226	27.44118	5.381089	7.672176	226	0.25	-2.73	-3.94	-2.41
227	27.42781	5.381089	7.658402	227	0.24	-2.78	-3.94	-2.41
228	27.42781	5.438395	7.61708	228	0.22	-2.76	-3.95	-2.43
229	27.36096	5.438395	7.589532	229	0.21	-2.93	-3.95	-2.42
230	27.3877	5.452722	7.589532	230	0.19	-2.83	-3.96	-2.43
231	27.45455	5.452722	7.644628	231	0.18	-2.78	-3.97	-2.44
232	27.49465	5.424069	7.672176	232	0.17	-2.71	-3.97	-2.44
233	27.45455	5.409742	7.658402	233	0.15	-2.72	-3.98	-2.43
234	27.46791	5.438395	7.61708	234	0.14	-2.78	-3.98	-2.45
235	27.45455	5.438395	7.589532	235	0.13	-2.76	-3.98	-2.47
236	27.41444	5.438395	7.61708	236	0.12	-2.73	-3.99	-2.48
237	27.41444	5.424069	7.658402	237	0.11	-2.75	-4	-2.49
238	27.3877	5.452722	7.68595	238	0.08	-2.72	-4.01	-2.52
239	27.40107	5.452722	7.68595	239	0.07	-2.81	-4.02	-2.53
240	27.45455	5.438395	7.699725	240	0.06	-2.77	-4.03	-2.54
241	27.44118	5.467049	7.699725	241	0.05	-2.8	-4.04	-2.54
242	27.45455	5.467049	7.644628	242	0.06	-2.8	-4.04	-2.54

243	27.45455	5.481375	7.644628	243	0.06	-3	-4.04	-2.53
244	27.45455	5.467049	7.603306	244	0.03	-2.84	-4.05	-2.56
245	27.45455	5.495702	7.61708	245	0	-2.9	-4.06	-2.58
246	27.46791	5.467049	7.644628	246	0	-2.91	-4.06	-2.57
247	27.45455	5.467049	7.630854	247	-0.01	-2.83	-4.08	-2.56
248	27.44118	5.424069	7.548209	248	-0.03	-2.86	-4.09	-2.57
249	27.44118	5.438395	7.575758	249	-0.04	-2.86	-4.09	-2.59
250	27.40107	5.452722	7.630854	250	-0.04	-2.87	-4.09	-2.59
251	27.41444	5.438395	7.630854	251	-0.05	-3.05	-4.1	-2.6
252	27.44118	5.438395	7.644628	252	-0.07	-2.94	-4.11	-2.61
253	27.44118	5.481375	7.561983	253	-0.07	-3.09	-4.11	-2.59
254	27.45455	5.452722	7.575758	254	-0.1	-2.98	-4.12	-2.61
255	27.44118	5.467049	7.575758	255	-0.11	-2.92	-4.13	-2.61
256	27.46791	5.452722	7.520661	256	-0.12	-3	-4.14	-2.63
257	27.3877	5.481375	7.534435	257	-0.14	-3.03	-4.15	-2.64
258	27.40107	5.467049	7.61708	258	-0.13	-3.08	-4.15	-2.65
259	27.3877	5.467049	7.644628	259	-0.14	-3.11	-4.15	-2.65
260	27.41444	5.424069	7.713499	260	-0.14	-3.09	-4.15	-2.68
261	27.40107	5.438395	7.68595	261	-0.16	-2.86	-4.16	-2.68
262	27.41444	5.467049	7.61708	262	-0.16	-2.97	-4.16	-2.66
263	27.3877	5.467049	7.61708	263	-0.15	-2.9	-4.16	-2.66
264	27.41444	5.467049	7.672176	264	-0.15	-3.09	-4.16	-2.65
265	27.41444	5.452722	7.658402	265	-0.16	-2.91	-4.16	-2.65
266	27.3877	5.481375	7.699725	266	-0.16	-2.84	-4.16	-2.64
267	27.36096	5.495702	7.713499	267	-0.15	-2.86	-4.15	-2.64
268	27.3877	5.495702	7.658402	268	-0.16	-2.94	-4.15	-2.65
269	27.41444	5.467049	7.630854	269	-0.16	-2.86	-4.15	-2.64
270	27.44118	5.481375	7.672176	270	-0.16	-2.86	-4.16	-2.65
271	27.42781	5.452722	7.672176	271	-0.16	-2.89	-4.16	-2.65
272	27.46791	5.452722	7.603306	272	-0.17	-2.84	-4.15	-2.65
273	27.44118	5.495702	7.630854	273	-0.18	-2.88	-4.16	-2.67
274	27.3877	5.481375	7.658402	274	-0.18	-2.9	-4.17	-2.68
275	27.41444	5.438395	7.644628	275	-0.17	-3	-4.16	-2.64
276	27.41444	5.481375	7.630854	276	-0.18	-2.84	-4.16	-2.65
277	27.41444	5.510029	7.630854	277	-0.2	-2.9	-4.17	-2.68
278	27.3877	5.510029	7.561983	278	-0.2	-2.96	-4.18	-2.69
279	27.41444	5.481375	7.575758	279	-0.21	-2.95	-4.18	-2.69
280	27.42781	5.467049	7.672176	280	-0.21	-2.99	-4.19	-2.68
281	27.41444	5.438395	7.658402	281	-0.22	-3.07	-4.19	-2.7
282	27.3877	5.495702	7.644628	282	-0.21	-3.23	-4.19	-2.69
283	27.41444	5.495702	7.658402	283	-0.23	-3.02	-4.21	-2.7
284	27.41444	5.467049	7.644628	284	-0.23	-3	-4.21	-2.71
285	27.41444	5.467049	7.644628	285	-0.24	-3.19	-4.22	-2.71
286	27.3877	5.452722	7.644628	286	-0.24	-3.16	-4.22	-2.73
287	27.42781	5.467049	7.644628	287	-0.24	-3.18	-4.22	-2.72

288	27.40107	5.495702	7.658402	288	-0.25	-3.17	-4.24	-2.73
289	27.42781	5.495702	7.658402	289	-0.26	-3.22	-4.24	-2.74
290	27.44118	5.495702	7.672176	290	-0.26	-3.1	-4.25	-2.73
291	27.44118	5.481375	7.630854	291	-0.27	-3.13	-4.25	-2.72
292	27.42781	5.481375	7.630854	292	-0.25	-3.2	-4.24	-2.7
293	27.41444	5.524355	7.603306	293	-0.26	-3.38	-4.26	-2.71
294	27.41444	5.524355	7.68595	294	-0.27	-3.23	-4.26	-2.72
295	27.3877	5.510029	7.713499	295	-0.27	-3.17	-4.27	-2.72
296	27.44118	5.538682	7.699725	296	-0.28	-3.21	-4.27	-2.73
297	27.3877	5.567335	7.672176	297	-0.28	-3.05	-4.27	-2.72
298	27.40107	5.538682	7.68595	298	-0.27	-3.2	-4.27	-2.72
299	27.3877	5.467049	7.61708	299	-0.29	-3.12	-4.28	-2.73
300	27.34759	5.481375	7.603306	300	-0.27	-3.17	-4.28	-2.71
301	27.36096	5.481375	7.630854	301	-0.28	-3.21	-4.29	-2.7
302	27.37433	5.481375	7.658402	302	-0.29	-3.26	-4.29	-2.71
303	27.40107	5.481375	7.630854	303	-0.3	-3.11	-4.3	-2.73
304	27.40107	5.510029	7.644628	304	-0.29	-3.26	-4.3	-2.72
305	27.37433	5.538682	7.672176	305	-0.31	-3.14	-4.31	-2.73
306	27.41444	5.567335	7.68595	306	-0.31	-3.16	-4.32	-2.74
307	27.41444	5.581662	7.672176	307	-0.31	-3.2	-4.32	-2.74
308	27.41444	5.553009	7.603306	308	-0.31	-3.12	-4.32	-2.73
309	27.41444	5.538682	7.603306	309	-0.32	-3.13	-4.33	-2.75
310	27.40107	5.538682	7.658402	310	-0.32	-3.31	-4.33	-2.75
311	27.34759	5.553009	7.672176	311	-0.33	-3.21	-4.34	-2.76
312	27.34759	5.567335	7.672176	312	-0.32	-3.1	-4.34	-2.77
313	27.37433	5.538682	7.699725	313	-0.33	-3.19	-4.34	-2.78
314	27.3877	5.553009	7.68595	314	-0.32	-3.12	-4.34	-2.78
315	27.34759	5.538682	7.699725	315	-0.33	-3.12	-4.35	-2.79
316	27.36096	5.524355	7.754821	316	-0.34	-3.29	-4.36	-2.77
317	27.33422	5.538682	7.754821	317	-0.35	-3.22	-4.36	-2.79
318	27.30749	5.524355	7.658402	318	-0.34	-3.39	-4.37	-2.79
319	27.36096	5.553009	7.644628	319	-0.36	-3.14	-4.37	-2.82
320	27.41444	5.524355	7.672176	320	-0.37	-3.12	-4.38	-2.83
321	27.34759	5.510029	7.630854	321	-0.37	-3.19	-4.39	-2.84
322	27.34759	5.553009	7.575758	322	-0.37	-3.22	-4.38	-2.84
323	27.37433	5.553009	7.630854	323	-0.38	-3.25	-4.39	-2.85
324	27.37433	5.538682	7.644628	324	-0.38	-3.17	-4.4	-2.86
325	27.40107	5.581662	7.644628	325	-0.38	-3.17	-4.4	-2.86
326	27.34759	5.567335	7.68595	326	-0.38	-3.2	-4.41	-2.86
327	27.33422	5.581662	7.68595	327	-0.38	-3.19	-4.41	-2.87
328	27.3877	5.553009	7.658402	328	-0.39	-3.22	-4.42	-2.88
329	27.37433	5.538682	7.603306	329	-0.39	-3.25	-4.43	-2.87
330	27.33422	5.538682	7.658402	330	-0.4	-3.32	-4.44	-2.88
331	27.30749	5.553009	7.672176	331	-0.42	-3.31	-4.44	-2.91
332	27.28075	5.553009	7.644628	332	-0.41	-3.23	-4.45	-2.91

333	27.32086	5.567335	7.644628	333	-0.43	-3.28	-4.46	-2.91
334	27.36096	5.553009	7.672176	334	-0.43	-3.3	-4.46	-2.92
335	27.36096	5.581662	7.699725	335	-0.44	-3.33	-4.46	-2.92
336	27.3877	5.581662	7.68595	336	-0.43	-3.27	-4.47	-2.92
337	27.3877	5.553009	7.644628	337	-0.49	-3.32	-4.5	-2.95
338	27.3877	5.553009	7.658402	338	-0.48	-3.53	-4.5	-2.95
339	27.36096	5.567335	7.672176	339	-0.46	-3.37	-4.5	-2.96
340	27.34759	5.581662	7.630854	340	-0.46	-3.25	-4.51	-2.97
341	27.36096	5.567335	7.630854	341	-0.47	-3.26	-4.52	-2.98
342	27.41444	5.538682	7.658402	342	-0.48	-3.31	-4.53	-2.98
343	27.3877	5.567335	7.699725	343	-0.49	-3.25	-4.53	-2.99
344	27.3877	5.553009	7.658402	344	-0.48	-3.3	-4.53	-2.99
345	27.36096	5.595989	7.699725	345	-0.48	-3.33	-4.54	-3
346	27.36096	5.581662	7.713499	346	-0.5	-3.39	-4.55	-3.01
347	27.36096	5.567335	7.672176	347	-0.5	-3.39	-4.55	-3.01
348	27.30749	5.581662	7.61708	348	-0.51	-3.4	-4.56	-3.02
349	27.36096	5.553009	7.68595	349	-0.5	-3.52	-4.56	-3.01
350	27.41444	5.553009	7.68595	350	-0.5	-3.36	-4.57	-3.01
351	27.42781	5.567335	7.644628	351	-0.5	-3.39	-4.57	-3.02
352	27.40107	5.624642	7.672176	352	-0.51	-3.45	-4.58	-3.03
353	27.36096	5.595989	7.658402	353	-0.52	-3.39	-4.58	-3.04
354	27.33422	5.524355	7.699725	354	-0.53	-3.43	-4.59	-3.06
355	27.3877	5.495702	7.630854	355	-0.52	-3.47	-4.59	-3.05
356	27.3877	5.510029	7.603306	356	-0.52	-3.39	-4.6	-3.05
357	27.33422	5.567335	7.68595	357	-0.53	-3.33	-4.59	-3.05
358	27.34759	5.581662	7.699725	358	-0.54	-3.5	-4.6	-3.06
359	27.36096	5.510029	7.68595	359	-0.55	-3.59	-4.61	-3.08
360	27.33422	5.495702	7.644628	360	-0.56	-3.61	-4.61	-3.07
361	27.30749	5.524355	7.603306	361	-0.55	-3.56	-4.62	-3.08
362	27.36096	5.524355	7.658402	362	-0.55	-3.55	-4.62	-3.08
363	27.37433	5.538682	7.644628	363	-0.56	-3.57	-4.63	-3.09
364	27.32086	5.567335	7.658402	364	-0.56	-3.47	-4.62	-3.08
365	27.36096	5.567335	7.672176	365	-0.57	-3.76	-4.63	-3.1
366	27.36096	5.595989	7.658402	366	-0.57	-3.64	-4.64	-3.11
367	27.36096	5.595989	7.68595	367	-0.57	-3.52	-4.64	-3.11
368	27.37433	5.538682	7.741047	368	-0.57	-3.57	-4.64	-3.1
369	27.34759	5.538682	7.727273	369	-0.57	-3.58	-4.64	-3.1
370	27.3877	5.595989	7.754821	370	-0.56	-3.58	-4.65	-3.11
371	27.36096	5.610315	7.754821	371	-0.56	-3.68	-4.65	-3.1
372	27.34759	5.581662	7.672176	372	-0.58	-3.7	-4.66	-3.12
373	27.36096	5.553009	7.68595	373	-0.58	-3.65	-4.67	-3.12
374	27.37433	5.567335	7.672176	374	-0.6	-3.75	-4.67	-3.13
375	27.37433	5.567335	7.630854	375	-0.6	-3.61	-4.68	-3.15
376	27.33422	5.610315	7.61708	376	-0.6	-3.58	-4.68	-3.15
377	27.37433	5.638968	7.644628	377	-0.6	-3.65	-4.68	-3.15

378	27.37433	5.610315	7.630854	378	-0.61	-3.55	-4.69	-3.15
379	27.3877	5.610315	7.658402	379	-0.62	-3.59	-4.7	-3.16
380	27.34759	5.638968	7.658402	380	-0.61	-3.66	-4.7	-3.15
381	27.33422	5.638968	7.713499	381	-0.61	-3.65	-4.7	-3.15
382	27.33422	5.581662	7.68595	382	-0.62	-3.59	-4.71	-3.16
383	27.34759	5.581662	7.672176	383	-0.62	-3.68	-4.71	-3.17
384	27.36096	5.624642	7.672176	384	-0.62	-3.6	-4.71	-3.17
385	27.33422	5.610315	7.672176	385	-0.63	-3.63	-4.72	-3.17
386	27.36096	5.567335	7.727273	386	-0.64	-3.61	-4.73	-3.18
387	27.3877	5.595989	7.68595	387	-0.63	-3.59	-4.73	-3.17
388	27.34759	5.567335	7.630854	388	-0.63	-3.67	-4.73	-3.18
389	27.3877	5.581662	7.575758	389	-0.62	-3.64	-4.73	-3.18
390	27.36096	5.567335	7.630854	390	-0.63	-3.63	-4.74	-3.18
391	27.34759	5.553009	7.658402	391	-0.63	-3.74	-4.74	-3.18
392	27.37433	5.581662	7.644628	392	-0.64	-3.71	-4.75	-3.19
393	27.36096	5.538682	7.61708	393	-0.65	-3.66	-4.75	-3.19
394	27.36096	5.595989	7.672176	394	-0.63	-3.7	-4.74	-3.18
395	27.33422	5.595989	7.713499	395	-0.65	-3.8	-4.75	-3.18
396	27.34759	5.610315	7.644628	396	-0.67	-3.65	-4.76	-3.2
397	27.34759	5.624642	7.658402	397	-0.66	-3.66	-4.77	-3.2
398	27.33422	5.624642	7.68595	398	-0.65	-3.68	-4.77	-3.2
399	27.32086	5.653295	7.741047	399	-0.66	-3.69	-4.78	-3.2
400	27.33422	5.595989	7.699725	400	-0.65	-3.72	-4.78	-3.21
401	27.32086	5.610315	7.61708	401	-0.66	-3.74	-4.78	-3.21
402	27.32086	5.595989	7.672176	402	-0.66	-3.74	-4.78	-3.22
403	27.33422	5.567335	7.699725	403	-0.66	-3.69	-4.78	-3.21
404	27.32086	5.581662	7.658402	404	-0.66	-3.78	-4.78	-3.21
405	27.32086	5.595989	7.630854	405	-0.66	-3.72	-4.78	-3.21
406	27.36096	5.624642	7.630854	406	-0.67	-3.78	-4.78	-3.2
407	27.36096	5.595989	7.603306	407	-0.67	-3.78	-4.79	-3.21
408	27.36096	5.581662	7.658402	408	-0.66	-3.77	-4.79	-3.2
409	27.36096	5.610315	7.68595	409	-0.67	-3.76	-4.8	-3.21
410	27.37433	5.624642	7.644628	410	-0.66	-3.75	-4.79	-3.2
411	27.3877	5.624642	7.589532	411	-0.67	-3.78	-4.8	-3.21
412	27.32086	5.638968	7.630854	412	-0.66	-3.75	-4.8	-3.21
413	27.30749	5.624642	7.644628	413	-0.66	-3.81	-4.79	-3.21
414	27.30749	5.624642	7.699725	414	-0.67	-3.91	-4.81	-3.22
415	27.28075	5.638968	7.699725	415	-0.66	-3.87	-4.8	-3.22
416	27.30749	5.638968	7.68595	416	-0.67	-3.82	-4.81	-3.22
417	27.32086	5.610315	7.644628	417	-0.69	-3.75	-4.82	-3.23
418	27.34759	5.595989	7.630854	418	-0.67	-3.79	-4.82	-3.23
419	27.29412	5.638968	7.658402	419	-0.67	-3.82	-4.82	-3.23
420	27.29412	5.667622	7.658402	420	-0.67	-3.78	-4.82	-3.24
421	27.33422	5.638968	7.644628	421	-0.69	-3.85	-4.82	-3.24
422	27.3877	5.610315	7.672176	422	-0.69	-3.85	-4.83	-3.24

423	27.40107	5.610315	7.644628	423	-0.7	-3.81	-4.84	-3.26
424	27.36096	5.624642	7.658402	424	-0.71	-3.85	-4.85	-3.26
425	27.37433	5.653295	7.61708	425	-0.7	-3.95	-4.85	-3.26
426	27.30749	5.696275	7.644628	426	-0.7	-3.96	-4.85	-3.27
427	27.26738	5.667622	7.61708	427	-0.72	-3.81	-4.86	-3.29
428	27.32086	5.638968	7.644628	428	-0.73	-3.89	-4.87	-3.29
429	27.34759	5.638968	7.644628	429	-0.71	-3.94	-4.87	-3.29
430	27.36096	5.595989	7.672176	430	-0.72	-3.96	-4.87	-3.29
431	27.34759	5.610315	7.630854	431	-0.71	-3.93	-4.88	-3.29
432	27.30749	5.667622	7.61708	432	-0.72	-3.9	-4.88	-3.3
433	27.34759	5.653295	7.644628	433	-0.72	-3.91	-4.88	-3.3
434	27.33422	5.610315	7.630854	434	-0.73	-3.94	-4.88	-3.31
435	27.3877	5.653295	7.630854	435	-0.74	-3.91	-4.89	-3.32
436	27.33422	5.681948	7.672176	436	-0.72	-3.89	-4.88	-3.32
437	27.3877	5.667622	7.61708	437	-0.73	-3.91	-4.89	-3.34
438	27.37433	5.681948	7.61708	438	-0.73	-3.9	-4.89	-3.32
439	27.36096	5.638968	7.68595	439	-0.71	-3.97	-4.88	-3.32
440	27.33422	5.610315	7.644628	440	-0.73	-4.01	-4.89	-3.34
441	27.28075	5.581662	7.699725	441	-0.73	-3.96	-4.89	-3.34
442	27.28075	5.638968	7.658402	442	-0.75	-3.86	-4.9	-3.35
443	27.36096	5.681948	7.630854	443	-0.74	-3.86	-4.9	-3.34
444	27.33422	5.638968	7.672176	444	-0.73	-3.84	-4.89	-3.33
445	27.33422	5.638968	7.658402	445	-0.72	-3.86	-4.89	-3.33
446	27.36096	5.696275	7.658402	446	-0.75	-3.93	-4.9	-3.33
447	27.30749	5.681948	7.603306	447	-0.75	-3.95	-4.91	-3.34
448	27.32086	5.653295	7.548209	448	-0.77	-4.04	-4.92	-3.35
449	27.33422	5.638968	7.575758	449	-0.75	-4.09	-4.92	-3.35
450	27.32086	5.624642	7.630854	450	-0.74	-3.94	-4.93	-3.35
451	27.32086	5.638968	7.713499	451	-0.76	-3.94	-4.93	-3.36
452	27.36096	5.681948	7.658402	452	-0.76	-3.98	-4.94	-3.36
453	27.30749	5.696275	7.61708	453	-0.77	-3.9	-4.94	-3.36
454	27.26738	5.696275	7.589532	454	-0.77	-4.02	-4.94	-3.36
455	27.26738	5.710602	7.603306	455	-0.77	-4.03	-4.95	-3.36
456	27.28075	5.653295	7.61708	456	-0.77	-4.03	-4.95	-3.36
457	27.29412	5.667622	7.644628	457	-0.78	-4.07	-4.96	-3.39
458	27.29412	5.667622	7.699725	458	-0.79	-4.06	-4.97	-3.39
459	27.32086	5.653295	7.672176	459	-0.79	-4.03	-4.97	-3.38
460	27.30749	5.667622	7.630854	460	-0.79	-4.07	-4.97	-3.39
461	27.28075	5.681948	7.630854	461	-0.79	-4.02	-4.98	-3.39
462	27.28075	5.653295	7.658402	462	-0.79	-4.02	-4.97	-3.39
463	27.28075	5.638968	7.603306	463	-0.79	-4.08	-4.98	-3.39
464	27.33422	5.624642	7.630854	464	-0.8	-4.13	-4.98	-3.39
465	27.34759	5.653295	7.644628	465	-0.79	-4.04	-4.98	-3.39
466	27.32086	5.653295	7.658402	466	-0.81	-4	-4.99	-3.39
467	27.26738	5.624642	7.727273	467	-0.81	-4	-5	-3.4

468	27.26738	5.624642	7.727273	468	-0.82	-4.02	-5	-3.41
469	27.29412	5.681948	7.68595	469	-0.81	-4.02	-5.01	-3.41
470	27.26738	5.724928	7.644628	470	-0.82	-4.06	-5.02	-3.42
471	27.26738	5.710602	7.61708	471	-0.82	-4.16	-5.01	-3.42
472	27.29412	5.667622	7.603306	472	-0.82	-4.04	-5.01	-3.42
473	27.32086	5.653295	7.61708	473	-0.83	-4.15	-5.02	-3.43
474	27.30749	5.710602	7.658402	474	-0.84	-4.02	-5.02	-3.42
475	27.32086	5.667622	7.672176	475	-0.82	-3.96	-5.03	-3.42
476	27.32086	5.667622	7.644628	476	-0.83	-3.98	-5.03	-3.42
477	27.32086	5.667622	7.672176	477	-0.84	-4.01	-5.03	-3.43
478	27.30749	5.696275	7.658402	478	-0.84	-3.94	-5.02	-3.43
479	27.36096	5.681948	7.644628	479	-0.83	-4.09	-5.02	-3.42
480	27.32086	5.696275	7.61708	480	-0.83	-4.03	-5.03	-3.43
481	27.34759	5.710602	7.589532	481	-0.84	-4.07	-5.03	-3.44
482	27.33422	5.710602	7.589532	482	-0.83	-4.06	-5.03	-3.44
483	27.33422	5.681948	7.630854	483	-0.84	-4.07	-5.03	-3.44
484	27.36096	5.667622	7.658402	484	-0.86	-4.16	-5.05	-3.45
485	27.33422	5.653295	7.644628	485	-0.84	-4.14	-5.05	-3.45
486	27.33422	5.696275	7.658402	486	-0.84	-4.07	-5.04	-3.45
487	27.30749	5.710602	7.658402	487	-0.85	-4.16	-5.05	-3.45
488	27.29412	5.681948	7.603306	488	-0.86	-4.05	-5.05	-3.45
489	27.28075	5.681948	7.589532	489	-0.85	-4	-5.04	-3.44
490	27.29412	5.724928	7.630854	490	-0.85	-3.97	-5.05	-3.45
491	27.32086	5.681948	7.603306	491	-0.85	-3.97	-5.05	-3.45
492	27.30749	5.696275	7.630854	492	-0.84	-4.03	-5.05	-3.45
493	27.25401	5.710602	7.630854	493	-0.84	-4.18	-5.05	-3.45
494	27.24064	5.696275	7.713499	494	-0.86	-4.14	-5.05	-3.46
495	27.24064	5.724928	7.658402	495	-0.84	-4.07	-5.04	-3.45
496	27.25401	5.753582	7.575758	496	-0.85	-4.06	-5.04	-3.45
497	27.26738	5.753582	7.589532	497	-0.86	-4.15	-5.05	-3.46
498	27.24064	5.710602	7.561983	498	-0.84	-4.12	-5.05	-3.46
499	27.22727	5.710602	7.575758	499	-0.85	-4.21	-5.06	-3.46
500	27.26738	5.681948	7.603306	500	-0.84	-4.2	-5.06	-3.48
501	27.32086	5.724928	7.61708	501	-0.85	-4.13	-5.06	-3.47
502	27.30749	5.681948	7.644628	502	-0.86	-4.16	-5.07	-3.48
503	27.26738	5.710602	7.61708	503	-0.86	-4.2	-5.07	-3.48
504	27.30749	5.710602	7.644628	504	-0.87	-4.15	-5.07	-3.49
505	27.28075	5.681948	7.644628	505	-0.87	-4.14	-5.08	-3.49
506	27.26738	5.739255	7.672176	506	-0.86	-4.16	-5.08	-3.48
507	27.25401	5.696275	7.630854	507	-0.87	-4.14	-5.08	-3.49
508	27.22727	5.696275	7.644628	508	-0.87	-4.3	-5.09	-3.49
509	27.28075	5.710602	7.658402	509	-0.88	-4.27	-5.09	-3.5
510	27.29412	5.696275	7.630854	510	-0.87	-4.24	-5.1	-3.51
511	27.28075	5.753582	7.589532	511	-0.89	-4.15	-5.11	-3.53
512	27.25401	5.724928	7.630854	512	-0.88	-4.16	-5.1	-3.52

513	27.25401	5.696275	7.644628	513	-0.9	-4.14	-5.11	-3.53
514	27.25401	5.696275	7.630854	514	-0.9	-4.23	-5.12	-3.53
515	27.2139	5.696275	7.61708	515	-0.9	-4.24	-5.12	-3.53
516	27.25401	5.681948	7.630854	516	-0.89	-4.24	-5.12	-3.53
517	27.32086	5.696275	7.644628	517	-0.89	-4.13	-5.11	-3.52
518	27.32086	5.696275	7.575758	518	-0.89	-4.15	-5.11	-3.52
519	27.28075	5.710602	7.548209	519	-0.88	-4.32	-5.11	-3.52
520	27.26738	5.724928	7.61708	520	-0.88	-4.12	-5.1	-3.52
521	27.29412	5.681948	7.644628	521	-0.88	-4.11	-5.1	-3.51
522	27.26738	5.696275	7.630854	522	-0.89	-4.18	-5.11	-3.52
523	27.29412	5.753582	7.658402	523	-0.89	-4.21	-5.11	-3.52
524	27.29412	5.710602	7.61708	524	-0.88	-4.22	-5.12	-3.52
525	27.26738	5.724928	7.561983	525	-0.88	-4.19	-5.11	-3.52
526	27.25401	5.739255	7.548209	526	-0.89	-4.23	-5.12	-3.54
527	27.28075	5.710602	7.575758	527	-0.89	-4.14	-5.12	-3.54
528	27.24064	5.724928	7.575758	528	-0.88	-4.21	-5.11	-3.52
529	27.2139	5.696275	7.603306	529	-0.89	-4.21	-5.11	-3.53
530	27.22727	5.739255	7.575758	530	-0.89	-4.16	-5.11	-3.52
531	27.24064	5.753582	7.589532	531	-0.89	-4.2	-5.11	-3.52
532	27.25401	5.753582	7.630854	532	-0.88	-4.25	-5.1	-3.51
533	27.26738	5.710602	7.630854	533	-0.88	-4.33	-5.11	-3.51
534	27.22727	5.739255	7.575758	534	-0.87	-4.35	-5.1	-3.52
535	27.22727	5.767908	7.575758	535	-0.88	-4.25	-5.1	-3.52
536	27.24064	5.739255	7.630854	536	-0.88	-4.21	-5.11	-3.52
537	27.24064	5.739255	7.603306	537	-0.89	-4.14	-5.11	-3.52
538	27.25401	5.724928	7.672176	538	-0.89	-4.23	-5.11	-3.52
539	27.22727	5.753582	7.658402	539	-0.89	-4.25	-5.11	-3.52
540	27.28075	5.739255	7.61708	540	-0.88	-4.19	-5.1	-3.51
541	27.25401	5.739255	7.61708	541	-0.88	-4.31	-5.11	-3.51
542	27.22727	5.710602	7.589532	542	-0.89	-4.27	-5.11	-3.52
543	27.18717	5.710602	7.589532	543	-0.87	-4.18	-5.1	-3.51
544	27.22727	5.739255	7.603306	544	-0.87	-4.19	-5.11	-3.52
545	27.26738	5.724928	7.575758	545	-0.88	-4.2	-5.11	-3.52
546	27.20053	5.710602	7.589532	546	-0.87	-4.28	-5.1	-3.53
547	27.20053	5.724928	7.603306	547	-0.88	-4.2	-5.1	-3.53
548	27.20053	5.710602	7.672176	548	-0.88	-4.22	-5.1	-3.52
549	27.26738	5.667622	7.658402	549	-0.87	-4.22	-5.1	-3.53
550	27.30749	5.681948	7.603306	550	-0.88	-4.11	-5.1	-3.53
551	27.26738	5.739255	7.630854	551	-0.87	-4.32	-5.1	-3.53
552	27.20053	5.739255	7.61708	552	-0.89	-4.29	-5.12	-3.54
553	27.24064	5.724928	7.61708	553	-0.88	-4.22	-5.11	-3.54
554	27.24064	5.724928	7.672176	554	-0.88	-4.25	-5.11	-3.54
555	27.22727	5.696275	7.68595	555	-0.88	-4.27	-5.1	-3.53
556	27.30749	5.739255	7.672176	556	-0.88	-4.2	-5.11	-3.54
557	27.28075	5.739255	7.658402	557	-0.89	-4.22	-5.11	-3.54

558	27.25401	5.739255	7.672176	558	-0.88	-4.23	-5.1	-3.54
559	27.24064	5.753582	7.658402	559	-0.87	-4.39	-5.1	-3.54
560	27.22727	5.724928	7.68595	560	-0.87	-4.31	-5.11	-3.55
561	27.20053	5.739255	7.672176	561	-0.88	-4.33	-5.11	-3.55
562	27.24064	5.796562	7.68595	562	-0.88	-4.29	-5.12	-3.55
563	27.25401	5.782235	7.68595	563	-0.88	-4.24	-5.11	-3.55
564	27.26738	5.810888	7.727273	564	-0.89	-4.21	-5.12	-3.55
565	27.25401	5.782235	7.741047	565	-0.89	-4.29	-5.12	-3.56
566	27.28075	5.767908	7.672176	566	-0.89	-4.29	-5.12	-3.56
567	27.22727	5.724928	7.61708	567	-0.89	-4.23	-5.13	-3.55
568	27.2139	5.767908	7.630854	568	-0.89	-4.26	-5.13	-3.55
569	27.2139	5.753582	7.630854	569	-0.89	-4.24	-5.13	-3.55
570	27.20053	5.767908	7.630854	570	-0.9	-4.28	-5.13	-3.56
571	27.16043	5.710602	7.658402	571	-0.9	-4.24	-5.13	-3.56
572	27.20053	5.724928	7.713499	572	-0.91	-4.26	-5.14	-3.56
573	27.26738	5.724928	7.741047	573	-0.91	-4.23	-5.14	-3.56
574	27.24064	5.696275	7.699725	574	-0.9	-4.29	-5.13	-3.55
575	27.22727	5.739255	7.61708	575	-0.9	-4.31	-5.14	-3.56
576	27.20053	5.724928	7.603306	576	-0.91	-4.26	-5.15	-3.57
577	27.18717	5.724928	7.644628	577	-0.92	-4.34	-5.16	-3.57
578	27.22727	5.710602	7.699725	578	-0.91	-4.36	-5.15	-3.56
579	27.18717	5.724928	7.68595	579	-0.9	-4.25	-5.14	-3.56
580	27.20053	5.782235	7.713499	580	-0.9	-4.29	-5.14	-3.56
581	27.2139	5.739255	7.741047	581	-0.9	-4.38	-5.15	-3.56
582	27.22727	5.724928	7.658402	582	-0.91	-4.32	-5.15	-3.56
583	27.24064	5.710602	7.575758	583	-0.91	-4.21	-5.14	-3.56
584	27.26738	5.653295	7.589532	584	-0.9	-4.39	-5.14	-3.55
585	27.24064	5.739255	7.630854	585	-0.91	-4.35	-5.15	-3.56
586	27.18717	5.782235	7.630854	586	-0.9	-4.42	-5.15	-3.56
587	27.16043	5.810888	7.672176	587	-0.9	-4.3	-5.14	-3.56
588	27.20053	5.810888	7.644628	588	-0.91	-4.38	-5.15	-3.57
589	27.22727	5.825215	7.658402	589	-0.9	-4.41	-5.15	-3.56
590	27.20053	5.767908	7.672176	590	-0.89	-4.36	-5.15	-3.56
591	27.20053	5.753582	7.699725	591	-0.91	-4.25	-5.15	-3.58
592	27.20053	5.782235	7.658402	592	-0.92	-4.32	-5.16	-3.58
593	27.22727	5.796562	7.630854	593	-0.92	-4.32	-5.15	-3.58
594	27.20053	5.782235	7.630854	594	-0.93	-4.25	-5.16	-3.59
595	27.16043	5.753582	7.61708	595	-0.93	-4.31	-5.16	-3.6
596	27.14706	5.782235	7.603306	596	-0.92	-4.37	-5.16	-3.61
597	27.1738	5.782235	7.575758	597	-0.92	-4.28	-5.16	-3.61
598	27.20053	5.724928	7.61708	598	-0.92	-4.32	-5.16	-3.6
599	27.20053	5.767908	7.630854	599	-0.9	-4.31	-5.16	-3.6
600	27.26738	5.767908	7.61708	600	-0.91	-4.33	-5.16	-3.59
601	27.33422	5.782235	7.630854	601	-0.91	-4.35	-5.15	-3.59
602	27.26738	5.767908	7.658402	602	-0.91	-4.32	-5.16	-3.6

603	27.22727	5.767908	7.61708	603	-0.91	-4.34	-5.16	-3.59
604	27.2139	5.796562	7.658402	604	-0.92	-4.37	-5.16	-3.59
605	27.2139	5.810888	7.644628	605	-0.94	-4.25	-5.18	-3.61
606	27.18717	5.767908	7.575758	606	-0.93	-4.35	-5.18	-3.61
607	27.16043	5.767908	7.603306	607	-0.93	-4.28	-5.18	-3.61
608	27.18717	5.782235	7.603306	608	-0.94	-4.36	-5.18	-3.61
609	27.25401	5.767908	7.658402	609	-0.94	-4.43	-5.19	-3.6
610	27.24064	5.782235	7.68595	610	-0.94	-4.44	-5.18	-3.61
611	27.20053	5.782235	7.672176	611	-0.94	-4.35	-5.2	-3.63
612	27.18717	5.782235	7.658402	612	-0.95	-4.31	-5.2	-3.62
613	27.2139	5.753582	7.658402	613	-0.94	-4.33	-5.19	-3.62
614	27.25401	5.753582	7.68595	614	-0.95	-4.2	-5.19	-3.61
615	27.25401	5.724928	7.658402	615	-0.94	-4.19	-5.19	-3.62
616	27.22727	5.767908	7.68595	616	-0.95	-4.35	-5.2	-3.62
617	27.18717	5.782235	7.658402	617	-0.96	-4.48	-5.2	-3.62
618	27.2139	5.796562	7.644628	618	-0.94	-4.35	-5.2	-3.62
619	27.20053	5.825215	7.672176	619	-0.95	-4.46	-5.2	-3.62
620	27.2139	5.796562	7.672176	620	-0.95	-4.23	-5.19	-3.62
621	27.20053	5.796562	7.672176	621	-0.94	-4.29	-5.2	-3.62
622	27.18717	5.796562	7.644628	622	-0.96	-4.34	-5.2	-3.62
623	27.24064	5.796562	7.61708	623	-0.95	-4.39	-5.2	-3.62
624	27.2139	5.810888	7.630854	624	-0.95	-4.34	-5.2	-3.63
625	27.20053	5.810888	7.68595	625	-0.95	-4.24	-5.2	-3.62
626	27.26738	5.810888	7.741047	626	-0.95	-4.36	-5.19	-3.62
627	27.24064	5.739255	7.699725	627	-0.95	-4.32	-5.19	-3.62
628	27.18717	5.767908	7.68595	628	-0.95	-4.23	-5.19	-3.61
629	27.20053	5.782235	7.658402	629	-0.95	-4.3	-5.19	-3.61
630	27.18717	5.767908	7.603306	630	-0.94	-4.49	-5.19	-3.61
631	27.1738	5.796562	7.644628	631	-0.94	-4.31	-5.19	-3.61
632	27.18717	5.825215	7.68595	632	-0.94	-4.36	-5.19	-3.6
633	27.20053	5.796562	7.68595	633	-0.95	-4.34	-5.18	-3.61
634	27.2139	5.782235	7.68595	634	-0.94	-4.25	-5.18	-3.61
635	27.2139	5.782235	7.672176	635	-0.94	-4.44	-5.18	-3.61
636	27.20053	5.796562	7.630854	636	-0.93	-4.32	-5.18	-3.61
637	27.2139	5.796562	7.672176	637	-0.93	-4.41	-5.18	-3.61
638	27.18717	5.825215	7.672176	638	-0.92	-4.43	-5.18	-3.61
639	27.1738	5.767908	7.672176	639	-0.93	-4.45	-5.18	-3.61
640	27.20053	5.796562	7.658402	640	-0.93	-4.43	-5.18	-3.61
641	27.2139	5.825215	7.630854	641	-0.93	-4.46	-5.18	-3.61
642	27.1738	5.782235	7.589532	642	-0.94	-4.43	-5.18	-3.61
643	27.20053	5.782235	7.630854	643	-0.93	-4.29	-5.18	-3.61
644	27.22727	5.796562	7.61708	644	-0.94	-4.31	-5.17	-3.61
645	27.20053	5.825215	7.603306	645	-0.94	-4.3	-5.17	-3.61
646	27.18717	5.782235	7.589532	646	-0.93	-4.33	-5.17	-3.61
647	27.22727	5.796562	7.68595	647	-0.93	-4.38	-5.17	-3.6

648	27.24064	5.810888	7.68595	648	-0.93	-4.54	-5.18	-3.61
649	27.20053	5.796562	7.713499	649	-0.93	-4.32	-5.18	-3.62
650	27.16043	5.796562	7.768595	650	-0.93	-4.4	-5.18	-3.62
651	27.18717	5.810888	7.699725	651	-0.94	-4.35	-5.18	-3.62
652	27.26738	5.810888	7.672176	652	-0.94	-4.33	-5.18	-3.61
653	27.25401	5.796562	7.61708	653	-0.94	-4.37	-5.18	-3.61
654	27.22727	5.796562	7.603306	654	-0.93	-4.38	-5.17	-3.62
655	27.20053	5.810888	7.61708	655	-0.94	-4.36	-5.18	-3.64
656	27.1738	5.825215	7.630854	656	-0.94	-4.3	-5.18	-3.63
657	27.1738	5.782235	7.603306	657	-0.94	-4.41	-5.18	-3.64
658	27.1738	5.825215	7.630854	658	-0.93	-4.42	-5.18	-3.64
659	27.18717	5.825215	7.658402	659	-0.94	-4.31	-5.19	-3.64
660	27.20053	5.810888	7.68595	660	-0.95	-4.4	-5.19	-3.64
661	27.13369	5.825215	7.727273	661	-0.94	-4.36	-5.19	-3.64
662	27.18717	5.825215	7.727273	662	-0.94	-4.37	-5.19	-3.64
663	27.1738	5.839542	7.699725	663	-0.94	-4.41	-5.19	-3.63
664	27.20053	5.825215	7.68595	664	-0.96	-4.3	-5.2	-3.65
665	27.2139	5.825215	7.699725	665	-0.95	-4.38	-5.19	-3.63
666	27.18717	5.796562	7.644628	666	-0.94	-4.37	-5.19	-3.62
667	27.18717	5.739255	7.61708	667	-0.95	-4.43	-5.19	-3.63
668	27.16043	5.810888	7.672176	668	-0.95	-4.29	-5.19	-3.64
669	27.20053	5.853868	7.713499	669	-0.96	-4.32	-5.19	-3.63
670	27.2139	5.839542	7.727273	670	-0.96	-4.45	-5.2	-3.64
671	27.1738	5.882521	7.727273	671	-0.95	-4.46	-5.2	-3.64
672	27.18717	5.825215	7.658402	672	-0.95	-4.51	-5.21	-3.64
673	27.22727	5.839542	7.630854	673	-0.96	-4.5	-5.2	-3.63
674	27.22727	5.810888	7.658402	674	-0.96	-4.48	-5.21	-3.63
675	27.25401	5.810888	7.644628	675	-0.96	-4.34	-5.21	-3.63
676	27.25401	5.796562	7.699725	676	-0.97	-4.4	-5.21	-3.64
677	27.2139	5.810888	7.699725	677	-0.96	-4.49	-5.22	-3.65
678	27.18717	5.796562	7.644628	678	-0.97	-4.45	-5.22	-3.67
679	27.13369	5.839542	7.644628	679	-0.97	-4.52	-5.22	-3.67
680	27.09358	5.782235	7.727273	680	-0.96	-4.56	-5.23	-3.69
681	27.09358	5.810888	7.68595	681	-0.97	-4.51	-5.24	-3.69
682	27.13369	5.810888	7.603306	682	-0.97	-4.55	-5.23	-3.69
683	27.1738	5.839542	7.644628	683	-0.98	-4.6	-5.23	-3.7
684	27.16043	5.825215	7.672176	684	-0.98	-4.61	-5.24	-3.71
685	27.1738	5.839542	7.644628	685	-0.99	-4.62	-5.24	-3.71
686	27.1738	5.825215	7.699725	686	-0.99	-4.6	-5.25	-3.72
687	27.1738	5.868195	7.672176	687	-0.99	-4.6	-5.25	-3.72
688	27.13369	5.853868	7.644628	688	-0.99	-4.64	-5.25	-3.73
689	27.14706	5.911175	7.61708	689	-1	-4.59	-5.25	-3.73
690	27.2139	5.868195	7.644628	690	-1	-4.56	-5.25	-3.73
691	27.22727	5.882521	7.727273	691	-1	-4.58	-5.26	-3.74
692	27.20053	5.868195	7.699725	692	-1.01	-4.51	-5.26	-3.74

693	27.18717	5.839542	7.630854	693	-0.99	-4.68	-5.26	-3.75
694	27.18717	5.839542	7.699725	694	-1	-4.62	-5.26	-3.74
695	27.18717	5.853868	7.699725	695	-1	-4.58	-5.27	-3.75
696	27.1738	5.825215	7.68595	696	-1.01	-4.53	-5.27	-3.75
697	27.20053	5.839542	7.727273	697	-0.99	-4.57	-5.27	-3.75
698	27.24064	5.853868	7.741047	698	-1	-4.58	-5.27	-3.76
699	27.28075	5.853868	7.672176	699	-1.01	-4.51	-5.26	-3.74
700	27.26738	5.810888	7.672176	700	-1.01	-4.44	-5.26	-3.74
701	27.18717	5.839542	7.727273	701	-1.01	-4.49	-5.26	-3.75
702	27.12032	5.810888	7.713499	702	-1.01	-4.52	-5.25	-3.74
703	27.13369	5.839542	7.713499	703	-1	-4.57	-5.25	-3.74
704	27.16043	5.853868	7.658402	704	-1.01	-4.41	-5.25	-3.74
705	27.18717	5.825215	7.699725	705	-1	-4.53	-5.25	-3.75
706	27.20053	5.825215	7.699725	706	-1.01	-4.56	-5.26	-3.76
707	27.2139	5.825215	7.68595	707	-1.02	-4.58	-5.26	-3.75
708	27.22727	5.810888	7.727273	708	-1.01	-4.58	-5.25	-3.75
709	27.22727	5.810888	7.727273	709	-1.01	-4.55	-5.26	-3.75
710	27.1738	5.825215	7.741047	710	-1.01	-4.47	-5.25	-3.76
711	27.14706	5.868195	7.713499	711	-1.01	-4.53	-5.25	-3.75
712	27.14706	5.896848	7.741047	712	-1	-4.68	-5.24	-3.74
713	27.14706	5.868195	7.699725	713	-0.99	-4.55	-5.24	-3.74
714	27.13369	5.839542	7.741047	714	-1	-4.54	-5.24	-3.74
715	27.14706	5.825215	7.754821	715	-0.99	-4.5	-5.25	-3.74
716	27.18717	5.810888	7.713499	716	-1.01	-4.49	-5.24	-3.74
717	27.16043	5.839542	7.713499	717	-0.99	-4.57	-5.24	-3.74
718	27.1738	5.825215	7.699725	718	-1	-4.47	-5.24	-3.74
719	27.2139	5.810888	7.658402	719	-1	-4.46	-5.23	-3.74
720	27.22727	5.853868	7.699725	720	-0.99	-4.44	-5.23	-3.74
721	27.20053	5.825215	7.768595	721	-0.99	-4.52	-5.23	-3.74
722	27.18717	5.810888	7.741047	722	-1	-4.45	-5.23	-3.74
723	27.1738	5.825215	7.727273	723	-0.99	-4.49	-5.23	-3.74
724	27.18717	5.825215	7.68595	724	-0.99	-4.55	-5.23	-3.74
725	27.18717	5.839542	7.672176	725	-0.98	-4.56	-5.23	-3.74
726	27.20053	5.839542	7.672176	726	-0.99	-4.49	-5.24	-3.75
727	27.22727	5.839542	7.644628	727	-1	-4.45	-5.25	-3.76
728	27.1738	5.868195	7.699725	728	-1	-4.53	-5.25	-3.75
729	27.14706	5.825215	7.658402	729	-0.99	-4.61	-5.24	-3.75
730	27.16043	5.825215	7.589532	730	-0.99	-4.62	-5.25	-3.75
731	27.12032	5.868195	7.672176	731	-1	-4.64	-5.25	-3.77
732	27.16043	5.868195	7.658402	732	-0.99	-4.67	-5.25	-3.77
733	27.1738	5.853868	7.644628	733	-1	-4.59	-5.25	-3.76
734	27.20053	5.853868	7.68595	734	-1	-4.59	-5.25	-3.76
735	27.18717	5.839542	7.713499	735	-1.02	-4.55	-5.26	-3.77
736	27.16043	5.839542	7.672176	736	-1.02	-4.56	-5.26	-3.77
737	27.14706	5.796562	7.630854	737	-1.02	-4.56	-5.26	-3.76

738	27.1738	5.782235	7.644628	738	-1.02	-4.51	-5.26	-3.76
739	27.1738	5.868195	7.644628	739	-1	-4.51	-5.25	-3.76
740	27.1738	5.896848	7.644628	740	-1	-4.55	-5.24	-3.75
741	27.14706	5.839542	7.68595	741	-1	-4.54	-5.24	-3.75
742	27.14706	5.825215	7.699725	742	-0.99	-4.54	-5.23	-3.74
743	27.1738	5.825215	7.672176	743	-0.99	-4.5	-5.23	-3.74
744	27.20053	5.825215	7.658402	744	-0.99	-4.49	-5.23	-3.75
745	27.1738	5.825215	7.68595	745	-1	-4.46	-5.24	-3.74
746	27.20053	5.825215	7.672176	746	-0.99	-4.62	-5.23	-3.75
747	27.20053	5.825215	7.713499	747	-0.99	-4.57	-5.23	-3.75
748	27.16043	5.853868	7.727273	748	-0.98	-4.37	-5.23	-3.75
749	27.20053	5.896848	7.68595	749	-0.99	-4.53	-5.23	-3.74
750	27.20053	5.839542	7.644628	750	-0.99	-4.47	-5.23	-3.75
751	27.1738	5.839542	7.68595	751	-0.99	-4.45	-5.23	-3.75
752	27.14706	5.810888	7.713499	752	-0.99	-4.52	-5.23	-3.75
753	27.1738	5.853868	7.699725	753	-0.99	-4.51	-5.23	-3.75
754	27.20053	5.882521	7.68595	754	-0.99	-4.58	-5.23	-3.75
755	27.24064	5.882521	7.699725	755	-0.99	-4.62	-5.23	-3.75
756	27.20053	5.853868	7.727273	756	-0.98	-4.59	-5.24	-3.76
757	27.14706	5.825215	7.754821	757	-0.98	-4.6	-5.24	-3.77
758	27.16043	5.868195	7.741047	758	-0.99	-4.62	-5.25	-3.77
759	27.16043	5.868195	7.727273	759	-0.99	-4.65	-5.25	-3.76
760	27.1738	5.853868	7.727273	760	-1.01	-4.54	-5.25	-3.76
761	27.16043	5.796562	7.699725	761	-1	-4.58	-5.25	-3.77
762	27.14706	5.825215	7.658402	762	-0.99	-4.61	-5.26	-3.77
763	27.10695	5.839542	7.658402	763	-1.01	-4.63	-5.27	-3.77
764	27.1738	5.796562	7.658402	764	-1.02	-4.67	-5.27	-3.78
765	27.13369	5.782235	7.68595	765	-1.01	-4.56	-5.27	-3.77
766	27.10695	5.782235	7.713499	766	-1.03	-4.59	-5.27	-3.78
767	27.14706	5.839542	7.727273	767	-1.03	-4.55	-5.28	-3.79
768	27.12032	5.882521	7.782369	768	-1.03	-4.64	-5.28	-3.79
769	27.12032	5.853868	7.768595	769	-1.04	-4.49	-5.29	-3.79
770	27.14706	5.882521	7.768595	770	-1.03	-4.48	-5.28	-3.78
771	27.1738	5.911175	7.768595	771	-1.04	-4.47	-5.28	-3.77
772	27.1738	5.911175	7.796143	772	-1.03	-4.53	-5.28	-3.77
773	27.2139	5.868195	7.796143	773	-1.03	-4.57	-5.29	-3.78
774	27.20053	5.825215	7.782369	774	-1.04	-4.68	-5.29	-3.79
775	27.20053	5.796562	7.768595	775	-1.03	-4.67	-5.28	-3.79
776	27.22727	5.839542	7.741047	776	-1.03	-4.67	-5.28	-3.78
777	27.22727	5.825215	7.727273	777	-1.04	-4.58	-5.28	-3.78
778	27.2139	5.853868	7.713499	778	-1.03	-4.51	-5.28	-3.78
779	27.1738	5.839542	7.699725	779	-1.03	-4.47	-5.28	-3.76
780	27.2139	5.853868	7.699725	780	-1.03	-4.43	-5.27	-3.76
781	27.24064	5.882521	7.727273	781	-1.03	-4.53	-5.28	-3.76
782	27.2139	5.896848	7.727273	782	-1.03	-4.62	-5.27	-3.77

783	27.20053	5.911175	7.68595	783	-1.04	-4.48	-5.28	-3.78
784	27.22727	5.853868	7.754821	784	-1.04	-4.65	-5.27	-3.78
785	27.26738	5.839542	7.782369	785	-1.05	-4.54	-5.28	-3.78
786	27.24064	5.810888	7.768595	786	-1.03	-4.5	-5.27	-3.78
787	27.20053	5.853868	7.754821	787	-1.03	-4.55	-5.27	-3.77
788	27.20053	5.839542	7.713499	788	0.81	-12.5	-2.87	1.81
789	27.20053	5.810888	7.672176	789	0.81	-12.51	-2.87	1.81
790	27.20053	5.825215	7.658402	790	0.8	-12.53	-2.88	1.8
791	27.1738	5.839542	7.699725	791	0.8	-12.51	-2.88	1.8
792	27.14706	5.825215	7.768595	792	0.81	-12.51	-2.88	1.81
793	27.09358	5.825215	7.754821	793	0.8	-12.49	-2.89	1.8
794	27.12032	5.853868	7.796143	794	0.8	-12.46	-2.89	1.8
795	27.09358	5.882521	7.768595	795	0.79	-12.44	-2.89	1.8
796	27.14706	5.882521	7.68595	796	0.79	-12.43	-2.89	1.8
797	27.14706	5.925501	7.672176	797	0.79	-12.41	-2.88	1.8
798	27.12032	5.925501	7.68595	798	0.8	-12.39	-2.88	1.8
799	27.14706	5.911175	7.713499	799	0.8	-12.38	-2.88	1.8
800	27.16043	5.868195	7.713499	800	0.8	-12.38	-2.88	1.8
801	27.16043	5.825215	7.768595	801	0.8	-12.41	-2.88	1.79
802	27.14706	5.853868	7.782369	802	0.79	-12.43	-2.88	1.79
803	27.1738	5.896848	7.754821	803	0.8	-12.44	-2.88	1.79
804	27.14706	5.896848	7.727273	804	0.8	-12.46	-2.87	1.8
805	27.14706	5.882521	7.699725	805	0.8	-12.46	-2.88	1.8
806	27.14706	5.825215	7.727273	806	0.79	-12.45	-2.88	1.8
807	27.18717	5.839542	7.672176	807	0.79	-12.44	-2.88	1.86
808	27.16043	5.853868	7.741047	808	0.79	-12.4	-2.89	1.93
809	27.20053	5.853868	7.768595	809	0.78	-12.43	-2.89	1.91
810	27.20053	5.911175	7.741047	810	0.79	-12.47	-2.89	1.88
811	27.22727	5.882521	7.782369	811	0.78	-12.49	-2.89	1.86
812	27.20053	5.868195	7.823691	812	0.79	-12.5	-2.89	1.85
813	27.16043	5.868195	7.727273	813	0.78	-12.5	-2.89	1.83
814	27.18717	5.868195	7.713499	814	0.78	-12.49	-2.89	1.83
815	27.18717	5.868195	7.68595	815	0.78	-12.49	-2.9	1.82
816	27.24064	5.882521	7.713499	816	0.78	-12.51	-2.9	1.82
817	27.22727	5.839542	7.782369	817	0.79	-12.49	-2.89	1.82
818	27.20053	5.796562	7.754821	818	0.78	-12.48	-2.89	1.81
819	27.1738	5.853868	7.754821	819	0.78	-12.5	-2.9	1.8
820	27.16043	5.868195	7.754821	820	0.78	-12.5	-2.91	1.8
821	27.18717	5.896848	7.727273	821	0.78	-12.5	-2.9	1.8
822	27.16043	5.853868	7.754821	822	0.78	-12.49	-2.9	1.8
823	27.16043	5.882521	7.713499	823	0.77	-12.49	-2.91	1.79
824	27.18717	5.882521	7.727273	824	0.77	-12.48	-2.91	1.79
825	27.20053	5.925501	7.727273	825	0.77	-12.46	-2.92	1.78
826	27.1738	5.882521	7.713499	826	0.77	-12.45	-2.91	1.79
827	27.16043	5.882521	7.699725	827	0.77	-12.42	-2.91	1.78

828	27.1738	5.882521	7.699725	828	0.78	-12.4	-2.91	1.79
829	27.1738	5.825215	7.754821	829	0.78	-12.4	-2.91	1.78
830	27.20053	5.882521	7.782369	830	0.78	-12.4	-2.9	1.79
831	27.20053	5.954155	7.768595	831	0.79	-12.38	-2.9	1.79
832	27.20053	5.968481	7.796143	832	0.78	-12.38	-2.9	1.78
833	27.16043	5.882521	7.837466	833	0.79	-12.38	-2.89	1.78
834	27.14706	5.896848	7.823691	834	0.78	-12.39	-2.89	1.78
835	27.1738	5.882521	7.741047	835	0.79	-12.37	-2.88	1.79
836	27.13369	5.868195	7.699725	836	0.79	-12.38	-2.88	1.79
837	27.16043	5.882521	7.68595	837	0.79	-12.39	-2.88	1.79
838	27.16043	5.868195	7.644628	838	0.8	-12.39	-2.88	1.8
839	27.14706	5.825215	7.727273	839	0.8	-12.39	-2.87	1.79
840	27.12032	5.810888	7.727273	840	0.8	-12.4	-2.88	1.79
841	27.1738	5.782235	7.672176	841	0.8	-12.4	-2.88	1.79
842	27.2139	5.853868	7.713499	842	0.8	-12.39	-2.88	1.79
843	27.22727	5.896848	7.782369	843	0.79	-12.38	-2.88	1.79
844	27.20053	5.911175	7.768595	844	0.8	-12.39	-2.88	1.79
845	27.18717	5.911175	7.768595	845	0.79	-12.41	-2.88	1.79
846	27.1738	5.925501	7.741047	846	0.8	-12.4	-2.88	1.79
847	27.14706	5.896848	7.68595	847	0.79	-12.41	-2.88	1.78
848	27.14706	5.896848	7.699725	848	0.79	-12.42	-2.88	1.78
849	27.14706	5.882521	7.796143	849	0.79	-12.44	-2.88	1.79
850	27.13369	5.868195	7.754821	850	0.8	-12.46	-2.88	1.79
851	27.14706	5.868195	7.727273	851	0.79	-12.48	-2.88	1.78
852	27.12032	5.868195	7.727273	852	0.78	-12.49	-2.89	1.77
853	27.14706	5.882521	7.754821	853	0.78	-12.5	-2.89	1.78
854	27.18717	5.882521	7.713499	854	0.78	-12.49	-2.9	1.78
855	27.20053	5.825215	7.741047	855	0.78	-12.48	-2.9	1.78
856	27.2139	5.868195	7.741047	856	0.78	-12.46	-2.9	1.78
857	27.20053	5.911175	7.727273	857	0.78	-12.44	-2.89	1.78
858	27.1738	5.911175	7.68595	858	0.79	-12.43	-2.88	1.79
859	27.22727	5.882521	7.713499	859	0.79	-12.41	-2.88	1.79
860	27.20053	5.911175	7.741047	860	0.8	-12.37	-2.87	1.79
861	27.18717	5.911175	7.672176	861	0.8	-12.38	-2.87	1.8
862	27.22727	5.868195	7.644628	862	0.79	-12.37	-2.88	1.79
863	27.20053	5.839542	7.727273	863	0.79	-12.39	-2.88	1.78
864	27.25401	5.882521	7.713499	864	0.79	-12.4	-2.88	1.78
865	27.18717	5.911175	7.754821	865	0.79	-12.4	-2.89	1.78
866	27.14706	5.896848	7.741047	866	0.79	-12.39	-2.88	1.78
867	27.14706	5.896848	7.796143	867	0.79	-12.4	-2.89	1.78
868	27.18717	5.896848	7.768595	868	0.78	-12.4	-2.88	1.78
869	27.16043	5.868195	7.727273	869	0.78	-12.39	-2.89	1.77
870	27.14706	5.853868	7.754821	870	0.78	-12.4	-2.89	1.77
871	27.1738	5.839542	7.741047	871	0.79	-12.39	-2.89	1.78
872	27.18717	5.882521	7.782369	872	0.79	-12.4	-2.89	1.78

873	27.2139	5.911175	7.754821	873	0.79	-12.4	-2.89	1.78
874	27.16043	5.896848	7.741047	874	0.79	-12.37	-2.88	1.78
875	27.1738	5.882521	7.713499	875	0.8	-12.4	-2.87	1.78
876	27.13369	5.839542	7.713499	876	0.79	-12.44	-2.88	1.78
877	27.09358	5.911175	7.713499	877	0.78	-12.47	-2.89	1.77
878	27.10695	5.939828	7.713499	878	0.78	-12.5	-2.89	1.77
879	27.16043	5.911175	7.68595	879	0.77	-12.5	-2.89	1.77
880	27.1738	5.896848	7.741047	880	0.78	-12.52	-2.9	1.77
881	27.18717	5.882521	7.741047	881	0.77	-12.53	-2.9	1.77
882	27.2139	5.896848	7.741047	882	0.77	-12.51	-2.9	1.77
883	27.16043	5.911175	7.713499	883	0.77	-12.53	-2.9	1.77
884	27.12032	5.896848	7.727273	884	0.76	-12.51	-2.91	1.76
885	27.1738	5.853868	7.741047	885	0.76	-12.5	-2.91	1.76
886	27.16043	5.882521	7.754821	886	0.76	-12.49	-2.91	1.76
887	27.13369	5.882521	7.741047	887	0.76	-12.5	-2.91	1.76
888	27.1738	5.896848	7.768595	888	0.76	-12.51	-2.91	1.76
889	27.1738	5.925501	7.782369	889	0.76	-12.5	-2.91	1.76
890	27.1738	5.896848	7.782369	890	0.76	-12.5	-2.91	1.76
891	27.14706	5.868195	7.796143	891	0.76	-12.49	-2.91	1.77
892	27.1738	5.896848	7.754821	892	0.75	-12.49	-2.92	1.76
893	27.16043	5.911175	7.713499	893	0.76	-12.49	-2.91	1.76
894	27.14706	5.882521	7.727273	894	0.75	-12.49	-2.92	1.75
895	27.14706	5.896848	7.754821	895	0.75	-12.5	-2.92	1.75
896	27.1738	5.925501	7.658402	896	0.76	-12.51	-2.91	1.76
897	27.18717	5.911175	7.644628	897	0.76	-12.5	-2.92	1.76
898	27.1738	5.939828	7.699725	898	0.74	-12.53	-2.93	1.74
899	27.14706	5.954155	7.754821	899	0.74	-12.53	-2.93	1.74
900	27.16043	5.925501	7.68595	900	0.74	-12.52	-2.93	1.74
901	27.20053	5.911175	7.713499	901	0.74	-12.52	-2.93	1.74
902	27.22727	5.868195	7.68595	902	0.75	-12.51	-2.93	1.75
903	27.18717	5.896848	7.699725	903	0.74	-12.5	-2.93	1.75
904	27.2139	5.939828	7.796143	904	0.74	-12.48	-2.93	1.74
905	27.1738	5.939828	7.809917	905	0.74	-12.45	-2.93	1.74
906	27.16043	5.939828	7.741047	906	0.74	-12.42	-2.93	1.74
907	27.1738	5.968481	7.699725	907	0.75	-12.42	-2.92	1.75
908	27.20053	5.939828	7.782369	908	0.75	-12.41	-2.92	1.75
909	27.20053	5.939828	7.782369	909	0.75	-12.39	-2.91	1.75
910	27.20053	5.968481	7.768595	910	0.77	-12.37	-2.9	1.76
911	27.18717	5.939828	7.796143	911	0.77	-12.38	-2.89	1.76
912	27.20053	5.939828	7.796143	912	0.77	-12.38	-2.9	1.76
913	27.1738	5.954155	7.796143	913	0.76	-12.38	-2.9	1.75
914	27.12032	5.939828	7.713499	914	0.77	-12.38	-2.9	1.75
915	27.1738	5.925501	7.741047	915	0.76	-12.37	-2.91	1.74
916	27.14706	5.911175	7.782369	916	0.77	-12.38	-2.91	1.74
917	27.16043	5.954155	7.782369	917	0.77	-12.41	-2.9	1.75

918	27.16043	5.954155	7.699725	918	0.77	-12.43	-2.9	1.75
919	27.13369	5.925501	7.713499	919	0.77	-12.46	-2.9	1.75
920	27.14706	5.954155	7.754821	920	0.77	-12.47	-2.9	1.75
921	27.14706	5.968481	7.809917	921	0.77	-12.49	-2.91	1.75
922	27.16043	5.968481	7.782369	922	0.76	-12.49	-2.91	1.75
923	27.16043	5.982808	7.741047	923	0.76	-12.5	-2.92	1.74
924	27.1738	5.954155	7.699725	924	0.75	-12.51	-2.92	1.74
925	27.2139	5.911175	7.713499	925	0.76	-12.52	-2.92	1.75
926	27.2139	5.925501	7.713499	926	0.75	-12.51	-2.92	1.74
927	27.13369	5.939828	7.713499	927	0.75	-12.52	-2.93	1.74
928	27.10695	5.868195	7.699725	928	0.74	-12.54	-2.93	1.74
929	27.1738	5.825215	7.672176	929	0.75	-12.51	-2.93	1.74
930	27.18717	5.882521	7.713499	930	0.74	-12.46	-2.94	1.74
931	27.16043	5.925501	7.713499	931	0.76	-12.43	-2.92	1.75
932	27.16043	5.954155	7.713499	932	0.75	-12.4	-2.92	1.75
933	27.1738	5.954155	7.713499	933	0.75	-12.41	-2.92	1.75
934	27.14706	5.954155	7.68595	934	0.76	-12.42	-2.91	1.75
935	27.12032	5.954155	7.699725	935	0.76	-12.45	-2.92	1.74
936	27.16043	5.968481	7.741047	936	0.75	-12.48	-2.92	1.74
937	27.1738	5.911175	7.782369	937	0.76	-12.5	-2.91	1.75
938	27.16043	5.968481	7.754821	938	0.75	-12.51	-2.92	1.74
939	27.18717	5.997135	7.658402	939	0.75	-12.51	-2.92	1.74
940	27.16043	5.997135	7.658402	940	0.75	-12.49	-2.92	1.74
941	27.1738	5.939828	7.713499	941	0.74	-12.47	-2.93	1.73
942	27.18717	5.925501	7.68595	942	0.74	-12.44	-2.93	1.73
943	27.18717	5.968481	7.727273	943	0.75	-12.43	-2.93	1.74
944	27.20053	5.939828	7.741047	944	0.75	-12.43	-2.92	1.74
945	27.22727	5.939828	7.754821	945	0.75	-12.43	-2.92	1.73
946	27.18717	5.939828	7.741047	946	0.74	-12.44	-2.93	1.73
947	27.16043	5.939828	7.68595	947	0.76	-12.46	-2.92	1.74
948	27.16043	5.982808	7.741047	948	0.75	-12.49	-2.93	1.73
949	27.14706	5.968481	7.741047	949	0.74	-12.51	-2.93	1.73
950	27.1738	5.954155	7.68595	950	0.74	-12.51	-2.93	1.73
951	27.18717	5.997135	7.727273	951	0.74	-12.52	-2.93	1.73
952	27.16043	5.939828	7.741047	952	0.75	-12.5	-2.93	1.74
953	27.16043	5.925501	7.68595	953	0.74	-12.49	-2.93	1.73
954	27.16043	5.954155	7.741047	954	0.75	-12.47	-2.93	1.74
955	27.16043	5.982808	7.727273	955	0.75	-12.44	-2.93	1.73
956	27.16043	5.954155	7.782369	956	0.75	-12.45	-2.93	1.73
957	27.16043	5.982808	7.809917	957	0.75	-12.46	-2.92	1.73
958	27.20053	5.968481	7.796143	958	0.75	-12.45	-2.92	1.73
959	27.20053	5.982808	7.754821	959	0.75	-12.45	-2.92	1.73
960	27.18717	5.968481	7.727273	960	0.75	-12.45	-2.92	1.73
961	27.18717	5.997135	7.741047	961	0.74	-12.44	-2.93	1.72
962	27.20053	5.968481	7.741047	962	0.74	-12.43	-2.93	1.72

963	27.20053	5.997135	7.699725	963	0.74	-12.41	-2.93	1.72
964	27.20053	5.968481	7.727273	964	0.75	-12.42	-2.92	1.73
965	27.2139	6.011461	7.68595	965	0.75	-12.42	-2.92	1.73
966	27.18717	5.968481	7.713499	966	0.75	-12.42	-2.92	1.72
967	27.18717	5.939828	7.741047	967	0.75	-12.41	-2.92	1.72
968	27.1738	5.954155	7.713499	968	0.75	-12.4	-2.92	1.73
969	27.20053	5.968481	7.768595	969	0.75	-12.37	-2.91	1.73
970	27.2139	5.954155	7.768595	970	0.76	-12.39	-2.91	1.73
971	27.18717	5.982808	7.754821	971	0.76	-12.41	-2.9	1.73
972	27.14706	5.968481	7.699725	972	0.77	-12.44	-2.91	1.73
973	27.13369	5.968481	7.713499	973	0.76	-12.47	-2.91	1.73
974	27.20053	5.982808	7.768595	974	0.76	-12.48	-2.91	1.73
975	27.22727	6.025788	7.672176	975	0.76	-12.48	-2.91	1.73
976	27.25401	6.025788	7.699725	976	0.76	-12.48	-2.91	1.73
977	27.20053	5.968481	7.727273	977	0.75	-12.44	-2.92	1.73
978	27.22727	5.968481	7.713499	978	0.75	-12.42	-2.92	1.72
979	27.2139	5.968481	7.782369	979	0.75	-12.42	-2.92	1.72
980	27.1738	5.939828	7.727273	980	0.76	-12.42	-2.92	1.73
981	27.18717	5.939828	7.672176	981	0.75	-12.44	-2.91	1.73
982	27.1738	5.968481	7.644628	982	0.76	-12.46	-2.93	1.73
983	27.18717	5.954155	7.672176	983	0.76	-12.48	-2.92	1.73
984	27.18717	5.939828	7.644628	984	0.76	-12.49	-2.92	1.73
985	27.16043	5.982808	7.713499	985	0.75	-12.51	-2.92	1.73
986	27.14706	5.939828	7.741047	986	0.75	-12.52	-2.92	1.73
987	27.16043	5.968481	7.68595	987	0.74	-12.53	-2.93	1.72
988	27.16043	5.982808	7.68595	988	0.73	-12.51	-2.94	1.72
989	27.1738	5.997135	7.727273	989	0.74	-12.47	-2.93	1.72
990	27.13369	5.997135	7.809917	990	0.74	-12.42	-2.93	1.72
991	27.14706	6.011461	7.768595	991	0.74	-12.43	-2.93	1.72
992	27.14706	5.982808	7.741047	992	0.74	-12.46	-2.93	1.72
993	27.16043	5.939828	7.727273	993	0.75	-12.49	-2.93	1.72
994	27.18717	5.982808	7.68595	994	0.74	-12.49	-2.93	1.72
995	27.1738	6.040115	7.699725	995	0.75	-12.47	-2.92	1.73
996	27.18717	5.997135	7.699725	996	0.75	-12.42	-2.91	1.73
997	27.25401	5.982808	7.727273	997	0.76	-12.39	-2.91	1.73
998	27.20053	5.968481	7.727273	998	0.75	-12.41	-2.92	1.73
999	27.1738	5.982808	7.741047	999	0.76	-12.43	-2.91	1.73
1000	27.1738	5.954155	7.713499	1000	0.76	-12.45	-2.9	1.73
1001	27.18717	5.939828	7.68595	1001	0.76	-12.47	-2.91	1.73
1002	27.2139	5.954155	7.727273	1002	0.75	-12.48	-2.91	1.72
1003	27.2139	5.997135	7.782369	1003	0.75	-12.49	-2.92	1.72
1004	27.20053	5.997135	7.727273	1004	0.74	-12.51	-2.92	1.72
1005	27.20053	5.954155	7.713499	1005	0.74	-12.5	-2.9	1.72
1006	27.18717	5.982808	7.741047	1006	0.74	-12.51	-2.92	1.71
1007	27.20053	5.968481	7.741047	1007	0.74	-12.51	-2.93	1.71

1008	27.2139	5.968481	7.741047	1008	0.74	-12.5	-2.93	1.71
1009	27.20053	5.997135	7.754821	1009	0.73	-12.5	-2.94	1.71
1010	27.22727	5.968481	7.782369	1010	0.73	-12.51	-2.94	1.71
1011	27.18717	5.997135	7.754821	1011	0.73	-12.52	-2.92	1.71
1012	27.16043	5.982808	7.741047	1012	0.73	-12.53	-2.88	1.7
1013	27.14706	5.982808	7.727273	1013	0.72	-12.53	-2.88	1.7
1014	27.12032	5.982808	7.741047	1014	0.73	-12.52	-2.88	1.7
1015	27.1738	5.968481	7.741047	1015	0.72	-12.5	-2.89	1.7
1016	27.2139	5.982808	7.754821	1016	0.73	-12.48	-2.9	1.71
1017	27.16043	6.011461	7.782369	1017	0.73	-12.46	-2.9	1.71
1018	27.1738	5.997135	7.768595	1018	0.73	-12.44	-2.91	1.71
1019	27.1738	5.982808	7.741047	1019	0.73	-12.44	-2.92	1.7
1020	27.20053	5.954155	7.699725	1020	0.72	-12.43	-2.93	1.69
1021	27.18717	5.982808	7.713499	1021	0.73	-12.42	-2.92	1.7
1022	27.20053	6.011461	7.782369	1022	0.73	-12.4	-2.92	1.7
1023	27.18717	5.997135	7.768595	1023	0.74	-12.39	-2.91	1.7
1024	27.18717	6.011461	7.782369	1024	0.74	-12.39	-2.92	1.7
1025	27.18717	6.025788	7.782369	1025	0.75	-12.39	-2.91	1.71
1026	27.20053	6.025788	7.741047	1026	0.74	-12.39	-2.92	1.7
1027	27.1738	6.025788	7.713499	1027	0.75	-12.36	-2.91	1.71
1028	27.16043	5.982808	7.644628	1028	0.75	-12.37	-2.91	1.71
1029	27.16043	6.025788	7.68595	1029	0.75	-12.38	-2.91	1.71
1030	27.18717	6.011461	7.713499	1030	0.74	-12.39	-2.91	1.71
1031	27.20053	5.968481	7.713499	1031	0.75	-12.39	-2.9	1.71
1032	27.13369	6.025788	7.796143	1032	0.75	-12.38	-2.89	1.71
1033	27.14706	6.011461	7.754821	1033	0.75	-12.37	-2.9	1.71
1034	27.14706	5.968481	7.713499	1034	0.75	-12.37	-2.9	1.71
1035	27.16043	5.982808	7.699725	1035	0.75	-12.37	-2.9	1.71
1036	27.18717	6.011461	7.754821	1036	0.75	-12.37	-2.89	1.71
1037	27.2139	5.982808	7.741047	1037	0.76	-12.36	-2.76	1.71
1038	27.18717	6.011461	7.782369	1038	0.75	-12.37	-2.66	1.71
1039	27.20053	5.997135	7.809917	1039	0.76	-12.36	-2.66	1.71
1040	27.1738	6.011461	7.796143	1040	0.76	-12.38	-2.7	1.71
1041	27.1738	6.025788	7.768595	1041	0.76	-12.38	-2.73	1.71
1042	27.20053	6.025788	7.823691	1042	0.76	-12.37	-2.76	1.71
1043	27.2139	6.025788	7.768595	1043	0.76	-12.37	-2.78	1.72
1044	27.18717	6.025788	7.713499	1044	0.76	-12.38	-2.79	1.72
1045	27.2139	6.011461	7.741047	1045	0.76	-12.4	-2.81	1.71
1046	27.1738	6.054441	7.727273	1046	0.76	-12.42	-2.83	1.71
1047	27.1738	6.011461	7.768595	1047	0.75	-12.45	-2.85	1.71
1048	27.14706	6.011461	7.768595	1048	0.76	-12.47	-2.85	1.71
1049	27.16043	6.011461	7.727273	1049	0.75	-12.48	-2.87	1.71
1050	27.1738	6.011461	7.713499	1050	0.75	-12.51	-2.87	1.71
1051	27.18717	5.982808	7.713499	1051	0.75	-12.52	-2.88	1.71
1052	27.1738	5.997135	7.727273	1052	0.74	-12.53	-2.89	1.7

1053	27.1738	6.040115	7.727273	1053	0.74	-12.52	-2.9	1.7
1054	27.1738	6.011461	7.754821	1054	0.74	-12.5	-2.89	1.71
1055	27.16043	5.997135	7.727273	1055	0.74	-12.51	-2.9	1.71
1056	27.14706	5.982808	7.672176	1056	0.74	-12.49	-2.9	1.71
1057	27.13369	5.982808	7.713499	1057	0.74	-12.47	-2.91	1.7
1058	27.13369	5.997135	7.713499	1058	0.73	-12.43	-2.91	1.71
1059	27.18717	5.997135	7.727273	1059	0.74	-12.43	-2.92	1.7
1060	27.13369	5.997135	7.727273	1060	0.74	-12.41	-2.91	1.7
1061	27.12032	6.025788	7.713499	1061	0.75	-12.41	-2.9	1.71
1062	27.14706	5.997135	7.727273	1062	0.75	-12.42	-2.9	1.71
1063	27.18717	5.982808	7.741047	1063	0.75	-12.37	-2.9	1.71
1064	27.18717	5.982808	7.699725	1064	0.74	-12.41	-2.91	1.7
1065	27.18717	6.025788	7.741047	1065	0.75	-12.43	-2.9	1.71
1066	27.2139	6.011461	7.768595	1066	0.75	-12.42	-2.9	1.71
1067	27.25401	6.025788	7.699725	1067	0.75	-12.42	-2.9	1.71
1068	27.24064	6.054441	7.727273	1068	0.75	-12.43	-2.91	1.71
1069	27.2139	6.011461	7.741047	1069	0.75	-12.42	-2.9	1.71
1070	27.20053	6.040115	7.768595	1070	0.75	-12.4	-2.91	1.71
1071	27.2139	6.011461	7.754821	1071	0.75	-12.39	-2.91	1.71
1072	27.2139	6.025788	7.741047	1072	0.75	-12.39	-2.9	1.71
1073	27.2139	6.011461	7.768595	1073	0.75	-12.39	-2.9	1.71
1074	27.2139	6.011461	7.713499	1074	0.75	-12.39	-2.9	1.71
1075	27.22727	5.997135	7.672176	1075	0.76	-12.39	-2.9	1.71
1076	27.20053	5.997135	7.68595	1076	0.76	-12.4	-2.9	1.72
1077	27.22727	6.025788	7.741047	1077	0.76	-12.44	-2.9	1.71
1078	27.20053	6.011461	7.754821	1078	0.76	-12.46	-2.9	1.72
1079	27.1738	6.011461	7.768595	1079	0.76	-12.49	-2.9	1.71
1080	27.2139	6.040115	7.782369	1080	0.76	-12.48	-2.9	1.72
1081	27.14706	5.997135	7.809917	1081	0.74	-12.49	-2.92	1.7
1082	27.20053	6.040115	7.782369	1082	0.74	-12.45	-2.92	1.7
1083	27.1738	6.068768	7.768595	1083	0.75	-12.44	-2.92	1.71
1084	27.14706	6.068768	7.727273	1084	0.74	-12.44	-2.92	1.7
1085	27.14706	6.011461	7.754821	1085	0.75	-12.43	-2.92	1.7
1086	27.20053	5.968481	7.754821	1086	0.74	-12.45	-2.92	1.7
1087	27.2139	5.997135	7.741047	1087	0.75	-12.45	-2.91	1.71
1088	27.22727	6.011461	7.699725	1088	0.75	-12.45	-2.91	1.7
1089	27.2139	6.025788	7.699725	1089	0.75	-12.43	-2.92	1.7
1090	27.24064	6.040115	7.727273	1090	0.74	-12.42	-2.92	1.7
1091	27.20053	6.040115	7.727273	1091	0.74	-12.4	-2.92	1.7
1092	27.14706	6.054441	7.713499	1092	0.74	-12.39	-2.91	1.7
1093	27.1738	6.011461	7.768595	1093	0.76	-12.36	-2.9	1.71
1094	27.20053	6.011461	7.809917	1094	0.75	-12.39	-2.91	1.7
1095	27.16043	6.025788	7.823691	1095	0.75	-12.44	-2.91	1.7
1096	27.1738	6.025788	7.809917	1096	0.75	-12.46	-2.91	1.7
1097	27.16043	6.025788	7.754821	1097	0.74	-12.49	-2.91	1.7

1098	27.18717	6.011461	7.754821	1098	0.74	-12.48	-2.92	1.7
1099	27.16043	6.025788	7.768595	1099	0.74	-12.47	-2.92	1.7
1100	27.2139	6.054441	7.741047	1100	0.74	-12.44	-2.92	1.7
1101	27.18717	6.068768	7.727273	1101	0.75	-12.42	-2.92	1.7
1102	27.16043	6.054441	7.768595	1102	0.75	-12.41	-2.91	1.7
1103	27.18717	6.040115	7.754821	1103	0.75	-12.39	-2.91	1.7
1104	27.1738	6.040115	7.754821	1104	0.75	-12.43	-2.92	1.69
1105	27.13369	6.011461	7.809917	1105	0.74	-12.44	-2.92	1.69
1106	27.13369	6.011461	7.782369	1106	0.74	-12.48	-2.92	1.69
1107	27.14706	6.068768	7.768595	1107	0.74	-12.5	-2.92	1.69
1108	27.1738	6.040115	7.754821	1108	0.73	-12.53	-2.93	1.69
1109	27.20053	6.011461	7.754821	1109	0.73	-12.52	-2.94	1.68
1110	27.1738	6.025788	7.741047	1110	0.73	-12.52	-2.93	1.69
1111	27.1738	6.025788	7.741047	1111	0.73	-12.52	-2.93	1.69
1112	27.16043	6.040115	7.741047	1112	0.74	-12.52	-2.93	1.7
1113	27.22727	6.054441	7.727273	1113	0.73	-12.52	-2.93	1.7
1114	27.18717	6.040115	7.713499	1114	0.73	-12.53	-2.93	1.69
1115	27.16043	6.054441	7.699725	1115	0.73	-12.52	-2.93	1.69
1116	27.16043	6.068768	7.699725	1116	0.73	-12.52	-2.94	1.69
1117	27.18717	6.068768	7.658402	1117	0.72	-12.53	-2.93	1.69
1118	27.16043	6.054441	7.672176	1118	0.73	-12.52	-2.94	1.69
1119	27.14706	6.040115	7.699725	1119	0.72	-12.52	-2.94	1.69
1120	27.18717	6.011461	7.727273	1120	0.73	-12.51	-2.94	1.69
1121	27.22727	6.025788	7.741047	1121	0.72	-12.52	-2.94	1.69
1122	27.20053	6.011461	7.727273	1122	0.73	-12.53	-2.94	1.69
1123	27.20053	6.040115	7.672176	1123	0.72	-12.55	-2.95	1.68
1124	27.18717	6.025788	7.727273	1124	0.71	-12.54	-2.95	1.69
1125	27.10695	6.054441	7.741047	1125	0.72	-12.54	-2.95	1.69
1126	27.13369	6.083095	7.713499	1126	0.71	-12.52	-2.95	1.68
1127	27.16043	6.097421	7.68595	1127	0.72	-12.53	-2.95	1.69
1128	27.18717	6.068768	7.741047	1128	0.71	-12.53	-2.94	1.69
1129	27.20053	6.054441	7.741047	1129	0.72	-12.53	-2.94	1.69
1130	27.1738	6.083095	7.713499	1130	0.71	-12.54	-2.95	1.68
1131	27.12032	6.040115	7.741047	1131	0.72	-12.52	-2.94	1.69
1132	27.14706	6.054441	7.754821	1132	0.72	-12.53	-2.95	1.69
1133	27.20053	6.068768	7.699725	1133	0.71	-12.52	-2.95	1.68
1134	27.22727	6.054441	7.672176	1134	0.71	-12.51	-2.95	1.68
1135	27.1738	6.111748	7.672176	1135	0.71	-12.5	-2.95	1.68
1136	27.1738	6.111748	7.754821	1136	0.71	-12.51	-2.95	1.68
1137	27.2139	6.054441	7.768595	1137	0.71	-12.49	-2.95	1.68
1138	27.2139	6.054441	7.754821	1138	0.71	-12.47	-2.94	1.68
1139	27.2139	6.068768	7.782369	1139	0.71	-12.42	-2.94	1.69
1140	27.1738	6.068768	7.713499	1140	0.72	-12.41	-2.94	1.69
1141	27.1738	6.054441	7.741047	1141	0.71	-12.4	-2.94	1.68
1142	27.16043	6.040115	7.768595	1142	0.71	-12.41	-2.94	1.68

1143	27.1738	6.025788	7.768595	1143	0.72	-12.41	-2.94	1.68
1144	27.20053	6.011461	7.768595	1144	0.71	-12.39	-2.94	1.68
1145	27.2139	6.025788	7.809917	1145	0.72	-12.43	-2.94	1.68
1146	27.2139	6.040115	7.754821	1146	0.72	-12.45	-2.93	1.68
1147	27.20053	6.040115	7.754821	1147	0.73	-12.44	-2.93	1.68
1148	27.18717	6.054441	7.768595	1148	0.72	-12.43	-2.93	1.68
1149	27.20053	6.011461	7.782369	1149	0.72	-12.42	-2.93	1.68
1150	27.18717	6.068768	7.782369	1150	0.72	-12.42	-2.93	1.68
1151	27.20053	6.068768	7.754821	1151	0.73	-12.41	-2.93	1.68
1152	27.20053	6.025788	7.741047	1152	0.72	-12.41	-2.93	1.68
1153	27.2139	6.054441	7.754821	1153	0.73	-12.4	-2.93	1.68
1154	27.1738	6.083095	7.796143	1154	0.72	-12.4	-2.93	1.68
1155	27.2139	6.083095	7.796143	1155	0.74	-12.39	-2.92	1.68
1156	27.1738	6.068768	7.741047	1156	0.73	-12.4	-2.93	1.68
1157	27.14706	6.011461	7.699725	1157	0.73	-12.4	-2.92	1.68
1158	27.1738	5.997135	7.713499	1158	0.74	-12.4	-2.92	1.68
1159	27.18717	6.054441	7.741047	1159	0.74	-12.4	-2.91	1.69
1160	27.1738	6.097421	7.727273	1160	0.74	-12.4	-2.91	1.69
1161	27.1738	6.068768	7.754821	1161	0.74	-12.39	-2.91	1.69
1162	27.1738	6.040115	7.768595	1162	0.74	-12.4	-2.92	1.68
1163	27.1738	6.025788	7.727273	1163	0.74	-12.4	-2.92	1.68
1164	27.18717	6.025788	7.713499	1164	0.74	-12.39	-2.91	1.69
1165	27.18717	6.040115	7.727273	1165	0.74	-12.39	-2.91	1.69
1166	27.16043	6.040115	7.741047	1166	0.74	-12.4	-2.91	1.69
1167	27.1738	6.040115	7.68595	1167	0.75	-12.42	-2.9	1.69
1168	27.20053	6.054441	7.713499	1168	0.74	-12.43	-2.9	1.69
1169	27.2139	6.068768	7.782369	1169	0.74	-12.42	-2.89	1.69
1170	27.16043	6.040115	7.727273	1170	0.74	-12.41	-2.89	1.69
1171	27.13369	6.068768	7.699725	1171	0.74	-12.4	-2.89	1.69
1172	27.12032	6.025788	7.713499	1172	0.74	-12.38	-2.89	1.69
1173	27.14706	6.083095	7.699725	1173	0.74	-12.38	-2.89	1.69
1174	27.20053	6.083095	7.68595	1174	0.74	-12.38	-2.89	1.69
1175	27.1738	6.025788	7.741047	1175	0.75	-12.41	-2.89	1.69
1176	27.13369	6.011461	7.713499	1176	0.74	-12.43	-2.89	1.69
1177	27.16043	6.040115	7.699725	1177	0.74	-12.43	-2.9	1.69
1178	27.1738	6.083095	7.768595	1178	0.75	-12.45	-2.89	1.69
1179	27.20053	6.111748	7.809917	1179	0.74	-12.47	-2.9	1.7
1180	27.18717	6.083095	7.796143	1180	0.75	-12.48	-2.9	1.7
1181	27.18717	6.097421	7.727273	1181	0.74	-12.5	-2.9	1.7
1182	27.16043	6.068768	7.768595	1182	0.75	-12.51	-2.9	1.7
1183	27.1738	6.025788	7.796143	1183	0.74	-12.5	-2.9	1.7
1184	27.13369	6.068768	7.713499	1184	0.74	-12.49	-2.92	1.69
1185	27.20053	6.083095	7.727273	1185	0.73	-12.47	-2.93	1.69
1186	27.20053	6.068768	7.713499	1186	0.73	-12.48	-2.93	1.69
1187	27.2139	6.011461	7.713499	1187	0.73	-12.47	-2.93	1.69

1188	27.25401	6.025788	7.699725	1188	0.73	-12.46	-2.92	1.69
1189	27.24064	6.097421	7.713499	1189	0.73	-12.45	-2.92	1.69
1190	27.22727	6.083095	7.741047	1190	0.73	-12.43	-2.93	1.69
1191	27.22727	6.097421	7.768595	1191	0.73	-12.42	-2.92	1.69
1192	27.18717	6.083095	7.782369	1192	0.74	-12.41	-2.91	1.69
1193	27.1738	6.097421	7.796143	1193	0.73	-12.39	-2.91	1.69
1194	27.13369	6.126074	7.768595	1194	0.74	-12.39	-2.91	1.69
1195	27.12032	6.126074	7.796143	1195	0.74	-12.43	-2.92	1.69
1196	27.1738	6.097421	7.768595	1196	0.74	-12.46	-2.91	1.69
1197	27.16043	6.068768	7.796143	1197	0.73	-12.49	-2.92	1.68
1198	27.18717	6.054441	7.727273	1198	0.73	-12.5	-2.92	1.69
1199	27.1738	6.068768	7.741047	1199	0.74	-12.5	-2.91	1.69
1200	27.13369	6.083095	7.713499	1200	0.73	-12.51	-2.92	1.69
1201	27.13369	6.083095	7.741047	1201	0.73	-12.51	-2.92	1.69
1202	27.12032	6.068768	7.727273	1202	0.72	-12.53	-2.93	1.68
1203	27.10695	6.068768	7.713499	1203	0.73	-12.52	-2.93	1.69
1204	27.14706	6.068768	7.741047	1204	0.73	-12.54	-2.93	1.68
1205	27.18717	6.054441	7.741047	1205	0.72	-12.56	-2.94	1.68
1206	27.18717	6.040115	7.741047	1206	0.71	-12.55	-2.95	1.67
1207	27.18717	6.068768	7.713499	1207	0.71	-12.53	-2.94	1.68
1208	27.18717	6.068768	7.68595	1208	0.71	-12.52	-2.94	1.67
1209	27.24064	6.068768	7.754821	1209	0.71	-12.5	-2.94	1.68
1210	27.1738	6.068768	7.713499	1210	0.71	-12.48	-2.94	1.67
1211	27.12032	6.068768	7.754821	1211	0.71	-12.45	-2.94	1.67
1212	27.16043	6.040115	7.768595	1212	0.71	-12.43	-2.94	1.67
1213	27.18717	6.040115	7.713499	1213	0.72	-12.41	-2.93	1.68
1214	27.20053	6.054441	7.713499	1214	0.72	-12.39	-2.93	1.68
1215	27.18717	6.040115	7.727273	1215	0.72	-12.39	-2.93	1.68
1216	27.22727	6.068768	7.713499	1216	0.72	-12.39	-2.93	1.67
1217	27.2139	6.083095	7.713499	1217	0.73	-12.4	-2.92	1.68
1218	27.1738	6.140401	7.727273	1218	0.73	-12.41	-2.92	1.68
1219	27.16043	6.083095	7.796143	1219	0.73	-12.4	-2.91	1.69
1220	27.14706	6.111748	7.782369	1220	0.74	-12.38	-2.91	1.69
1221	27.16043	6.126074	7.699725	1221	0.73	-12.38	-2.91	1.69
1222	27.20053	6.126074	7.68595	1222	0.74	-12.37	-2.91	1.69
1223	27.22727	6.140401	7.713499	1223	0.75	-12.37	-2.9	1.69
1224	27.2139	6.097421	7.768595	1224	0.74	-12.36	-2.91	1.69
1225	27.1738	6.111748	7.741047	1225	0.75	-12.36	-2.9	1.69
1226	27.18717	6.097421	7.782369	1226	0.75	-12.36	-2.9	1.69
1227	27.24064	6.097421	7.796143	1227	0.75	-12.37	-2.9	1.69
1228	27.22727	6.083095	7.782369	1228	0.75	-12.38	-2.9	1.69
1229	27.1738	6.083095	7.727273	1229	0.75	-12.42	-2.9	1.69
1230	27.1738	6.068768	7.754821	1230	0.74	-12.45	-2.9	1.69
1231	27.2139	6.054441	7.713499	1231	0.75	-12.47	-2.91	1.69
1232	27.16043	6.068768	7.699725	1232	0.75	-12.49	-2.91	1.69

1233	27.18717	6.054441	7.68595	1233	0.74	-12.51	-2.91	1.69
1234	27.24064	6.054441	7.68595	1234	0.74	-12.5	-2.92	1.68
1235	27.26738	6.111748	7.741047	1235	0.73	-12.47	-2.92	1.68
1236	27.26738	6.126074	7.809917	1236	0.74	-12.44	-2.92	1.69
1237	27.20053	6.126074	7.809917	1237	0.74	-12.43	-2.92	1.69
1238	27.2139	6.154728	7.754821	1238	0.74	-12.43	-2.92	1.68
1239	27.18717	6.126074	7.68595	1239	0.74	-12.41	-2.91	1.69
1240	27.18717	6.111748	7.699725	1240	0.74	-12.41	-2.91	1.68
1241	27.16043	6.054441	7.68595	1241	0.74	-12.4	-2.92	1.68
1242	27.12032	6.025788	7.699725	1242	0.74	-12.41	-2.91	1.69
1243	27.16043	6.068768	7.741047	1243	0.74	-12.41	-2.91	1.68
1244	27.1738	6.068768	7.768595	1244	0.73	-12.41	-2.92	1.68
1245	27.18717	6.097421	7.741047	1245	0.74	-12.4	-2.91	1.69
1246	27.18717	6.068768	7.741047	1246	0.75	-12.38	-2.9	1.69
1247	27.13369	6.068768	7.727273	1247	0.73	-12.4	-2.91	1.68
1248	27.14706	6.097421	7.754821	1248	0.74	-12.39	-2.91	1.68
1249	27.13369	6.083095	7.727273	1249	0.74	-12.38	-2.9	1.69
1250	27.10695	6.040115	7.768595	1250	0.75	-12.39	-2.9	1.7
1251	27.10695	6.068768	7.768595	1251	0.76	-12.37	-2.89	1.71
1252	27.14706	6.083095	7.782369	1252	0.75	-12.37	-2.89	1.71
1253	27.18717	6.097421	7.713499	1253	0.75	-12.38	-2.9	1.7
1254	27.16043	6.097421	7.727273	1254	0.75	-12.41	-2.9	1.7
1255	27.16043	6.068768	7.713499	1255	0.76	-12.43	-2.89	1.71
1256	27.16043	6.083095	7.754821	1256	0.76	-12.46	-2.89	1.71
1257	27.13369	6.083095	7.768595	1257	0.75	-12.48	-2.9	1.71
1258	27.14706	6.083095	7.782369	1258	0.75	-12.49	-2.9	1.71
1259	27.14706	6.083095	7.741047	1259	0.75	-12.49	-2.91	1.7
1260	27.13369	6.068768	7.713499	1260	0.73	-12.48	-2.92	1.7
1261	27.14706	6.054441	7.713499	1261	0.74	-12.46	-2.92	1.7
1262	27.16043	6.068768	7.741047	1262	0.74	-12.43	-2.91	1.7
1263	27.2139	6.097421	7.754821	1263	0.74	-12.42	-2.91	1.7
1264	27.22727	6.126074	7.713499	1264	0.74	-12.43	-2.91	1.7
1265	27.16043	6.111748	7.713499	1265	0.75	-12.42	-2.9	1.71
1266	27.1738	6.097421	7.727273	1266	0.74	-12.4	-2.9	1.7
1267	27.1738	6.111748	7.768595	1267	0.75	-12.39	-2.9	1.71
1268	27.14706	6.126074	7.754821	1268	0.75	-12.38	-2.9	1.71
1269	27.18717	6.111748	7.768595	1269	0.75	-12.39	-2.9	1.71
1270	27.20053	6.083095	7.754821	1270	0.75	-12.38	-2.89	1.71
1271	27.16043	6.054441	7.768595	1271	0.76	-12.37	-2.89	1.71
1272	27.16043	6.097421	7.754821	1272	0.76	-12.35	-2.88	1.72
1273	27.18717	6.126074	7.782369	1273	0.76	-12.36	-2.88	1.72
1274	27.18717	6.111748	7.768595	1274	0.77	-12.36	-2.88	1.72
1275	27.16043	6.054441	7.782369	1275	0.77	-12.37	-2.88	1.72
1276	27.18717	6.054441	7.809917	1276	0.77	-12.39	-2.88	1.72
1277	27.2139	6.097421	7.754821	1277	0.77	-12.42	-2.88	1.72

1278	27.16043	6.097421	7.68595	1278	0.76	-12.44	-2.89	1.71
1279	27.16043	6.083095	7.672176	1279	0.77	-12.44	-2.88	1.72
1280	27.16043	6.111748	7.754821	1280	0.76	-12.46	-2.89	1.71
1281	27.1738	6.097421	7.768595	1281	0.76	-12.47	-2.89	1.71
1282	27.2139	6.097421	7.768595	1282	0.75	-12.46	-2.89	1.71
1283	27.20053	6.097421	7.754821	1283	0.75	-12.48	-2.89	1.71
1284	27.1738	6.111748	7.796143	1284	0.76	-12.48	-2.89	1.72
1285	27.18717	6.097421	7.741047	1285	0.75	-12.51	-2.9	1.71
1286	27.24064	6.111748	7.699725	1286	0.75	-12.49	-2.9	1.71
1287	27.25401	6.154728	7.713499	1287	0.75	-12.47	-2.9	1.71
1288	27.24064	6.140401	7.713499	1288	0.74	-12.44	-2.9	1.71
1289	27.25401	6.111748	7.727273	1289	0.74	-12.42	-2.91	1.71
1290	27.22727	6.083095	7.713499	1290	0.74	-12.4	-2.9	1.71
1291	27.1738	6.126074	7.68595	1291	0.75	-12.38	-2.9	1.71
1292	27.14706	6.111748	7.68595	1292	0.74	-12.38	-2.9	1.7
1293	27.1738	6.097421	7.713499	1293	0.75	-12.38	-2.9	1.7
1294	27.2139	6.126074	7.699725	1294	0.75	-12.38	-2.89	1.71
1295	27.22727	6.126074	7.68595	1295	0.75	-12.38	-2.89	1.71
1296	27.25401	6.140401	7.68595	1296	0.75	-12.39	-2.89	1.71
1297	27.22727	6.126074	7.672176	1297	0.75	-12.39	-2.89	1.7
1298	27.18717	6.111748	7.713499	1298	0.75	-12.4	-2.89	1.71
1299	27.16043	6.140401	7.741047	1299	0.75	-12.41	-2.89	1.7
1300	27.1738	6.140401	7.741047	1300	0.76	-12.39	-2.88	1.71
1301	27.2139	6.097421	7.741047	1301	0.75	-12.38	-2.89	1.71
1302	27.20053	6.097421	7.809917	1302	0.76	-12.4	-2.88	1.71
1303	27.18717	6.097421	7.796143	1303	0.76	-12.4	-2.88	1.71
1304	27.16043	6.140401	7.768595	1304	0.76	-12.39	-2.88	1.71
1305	27.14706	6.140401	7.837466	1305	0.77	-12.38	-2.88	1.71
1306	27.14706	6.154728	7.809917	1306	0.76	-12.37	-2.88	1.71
1307	27.18717	6.169054	7.754821	1307	0.76	-12.38	-2.88	1.71
1308	27.14706	6.140401	7.699725	1308	0.76	-12.38	-2.88	1.71
1309	27.10695	6.140401	7.68595	1309	0.76	-12.36	-2.88	1.71
1310	27.12032	6.154728	7.741047	1310	0.76	-12.37	-2.88	1.71
1311	27.16043	6.126074	7.768595	1311	0.76	-12.4	-2.88	1.71
1312	27.16043	6.111748	7.754821	1312	0.76	-12.43	-2.88	1.71
1313	27.18717	6.111748	7.768595	1313	0.76	-12.46	-2.88	1.71
1314	27.18717	6.126074	7.754821	1314	0.76	-12.47	-2.89	1.71
1315	27.14706	6.154728	7.768595	1315	0.75	-12.48	-2.88	1.72
1316	27.1738	6.111748	7.768595	1316	0.76	-12.47	-2.88	1.72
1317	27.2139	6.140401	7.768595	1317	0.75	-12.49	-2.89	1.72
1318	27.2139	6.126074	7.754821	1318	0.74	-12.5	-2.89	1.71
1319	27.25401	6.083095	7.754821	1319	0.74	-12.51	-2.9	1.71
1320	27.20053	6.068768	7.782369	1320	0.74	-12.52	-2.91	1.71
1321	27.18717	6.111748	7.796143	1321	0.73	-12.52	-2.91	1.7
1322	27.1738	6.140401	7.768595	1322	0.74	-12.53	-2.91	1.71

1323	27.18717	6.126074	7.713499	1323	0.74	-12.53	-2.91	1.71
1324	27.20053	6.111748	7.699725	1324	0.74	-12.53	-2.91	1.71
1325	27.2139	6.140401	7.699725	1325	0.74	-12.53	-2.91	1.71
1326	27.13369	6.126074	7.741047	1326	0.74	-12.52	-2.91	1.71
1327	27.14706	6.154728	7.754821	1327	0.74	-12.49	-2.91	1.71
1328	27.14706	6.169054	7.727273	1328	0.74	-12.46	-2.92	1.71
1329	27.18717	6.140401	7.741047	1329	0.74	-12.42	-2.91	1.71
1330	27.14706	6.154728	7.768595	1330	0.74	-12.4	-2.91	1.71
1331	27.14706	6.140401	7.713499	1331	0.74	-12.38	-2.91	1.71
1332	27.16043	6.169054	7.68595	1332	0.75	-12.38	-2.91	1.71
1333	27.20053	6.183381	7.741047	1333	0.75	-12.36	-2.9	1.71
1334	27.2139	6.140401	7.727273	1334	0.75	-12.38	-2.9	1.71
1335	27.18717	6.140401	7.741047	1335	0.75	-12.4	-2.9	1.71
1336	27.2139	6.126074	7.754821	1336	0.75	-12.4	-2.9	1.71
1337	27.20053	6.097421	7.741047	1337	0.75	-12.4	-2.89	1.72
1338	27.13369	6.111748	7.754821	1338	0.76	-12.42	-2.89	1.73
1339	27.14706	6.083095	7.782369	1339	0.76	-12.44	-2.89	1.73
1340	27.1738	6.140401	7.782369	1340	0.75	-12.47	-2.89	1.73
1341	27.22727	6.140401	7.741047	1341	0.75	-12.49	-2.9	1.72
1342	27.1738	6.111748	7.727273	1342	0.74	-12.49	-2.9	1.72
1343	27.20053	6.126074	7.754821	1343	0.74	-12.47	-2.9	1.72
1344	27.22727	6.140401	7.768595	1344	0.74	-12.43	-2.9	1.72
1345	27.2139	6.140401	7.741047	1345	0.75	-12.41	-2.9	1.72
1346	27.1738	6.154728	7.782369	1346	0.75	-12.4	-2.89	1.72
1347	27.14706	6.212034	7.782369	1347	0.75	-12.43	-2.9	1.72
1348	27.18717	6.197708	7.741047	1348	0.75	-12.45	-2.89	1.72
1349	27.20053	6.154728	7.68595	1349	0.75	-12.48	-2.9	1.72
1350	27.2139	6.140401	7.727273	1350	0.75	-12.5	-2.9	1.72
1351	27.16043	6.126074	7.754821	1351	0.74	-12.5	-2.9	1.72
1352	27.16043	6.154728	7.699725	1352	0.74	-12.51	-2.9	1.72
1353	27.16043	6.140401	7.68595	1353	0.74	-12.51	-2.9	1.72
1354	27.10695	6.140401	7.727273	1354	0.73	-12.52	-2.91	1.71
1355	27.09358	6.111748	7.741047	1355	0.73	-12.53	-2.91	1.71
1356	27.14706	6.140401	7.713499	1356	0.73	-12.52	-2.91	1.71
1357	27.22727	6.169054	7.713499	1357	0.73	-12.53	-2.91	1.72
1358	27.20053	6.197708	7.713499	1358	0.73	-12.54	-2.91	1.71
1359	27.16043	6.169054	7.699725	1359	0.72	-12.55	-2.92	1.71
1360	27.14706	6.154728	7.713499	1360	0.72	-12.54	-2.92	1.71
1361	27.1738	6.169054	7.699725	1361	0.72	-12.53	-2.93	1.71
1362	27.2139	6.169054	7.727273	1362	0.73	-12.53	-2.92	1.72
1363	27.16043	6.126074	7.713499	1363	0.73	-12.53	-2.92	1.72
1364	27.1738	6.126074	7.713499	1364	0.72	-12.53	-2.92	1.71
1365	27.16043	6.140401	7.713499	1365	0.73	-12.52	-2.92	1.72
1366	27.13369	6.126074	7.727273	1366	0.73	-12.51	-2.92	1.71
1367	27.12032	6.126074	7.727273	1367	0.73	-12.52	-2.92	1.71

1368	27.10695	6.140401	7.68595	1368	0.74	-12.51	-2.91	1.72
1369	27.16043	6.140401	7.672176	1369	0.74	-12.51	-2.91	1.72
1370	27.1738	6.126074	7.68595	1370	0.73	-12.48	-2.91	1.71
1371	27.1738	6.169054	7.713499	1371	0.74	-12.45	-2.91	1.71
1372	27.20053	6.154728	7.727273	1372	0.74	-12.44	-2.91	1.71
1373	27.20053	6.126074	7.741047	1373	0.73	-12.44	-2.91	1.71
1374	27.18717	6.140401	7.754821	1374	0.74	-12.44	-2.91	1.71
1375	27.16043	6.154728	7.741047	1375	0.74	-12.45	-2.91	1.71
1376	27.18717	6.126074	7.754821	1376	0.74	-12.43	-2.9	1.72
1377	27.22727	6.140401	7.796143	1377	0.74	-12.43	-2.89	1.73
1378	27.20053	6.169054	7.796143	1378	0.74	-12.43	-2.9	1.71
1379	27.18717	6.183381	7.782369	1379	0.74	-12.41	-2.9	1.72
1380	27.2139	6.169054	7.754821	1380	0.74	-12.41	-2.9	1.72
1381	27.25401	6.154728	7.768595	1381	0.75	-12.39	-2.89	1.72
1382	27.25401	6.140401	7.754821	1382	0.75	-12.37	-2.89	1.73
1383	27.24064	6.140401	7.727273	1383	0.76	-12.36	-2.89	1.73
1384	27.25401	6.126074	7.741047	1384	0.77	-12.37	-2.88	1.73
1385	27.26738	6.169054	7.699725	1385	0.77	-12.39	-2.87	1.73
1386	27.26738	6.169054	7.741047	1386	0.77	-12.41	-2.87	1.73
1387	27.25401	6.126074	7.809917	1387	0.77	-12.44	-2.88	1.73
1388	27.2139	6.111748	7.754821	1388	0.77	-12.45	-2.88	1.72
1389	27.18717	6.169054	7.741047	1389	0.77	-12.47	-2.87	1.73
1390	27.1738	6.183381	7.754821	1390	0.77	-12.47	-2.87	1.73
1391	27.20053	6.212034	7.768595	1391	0.78	-12.47	-2.87	1.74
1392	27.1738	6.183381	7.727273	1392	0.76	-12.5	-2.88	1.73
1393	27.12032	6.183381	7.68595	1393	0.76	-12.51	-2.89	1.72
1394	27.18717	6.197708	7.658402	1394	0.76	-12.51	-2.89	1.73
1395	27.16043	6.154728	7.699725	1395	0.76	-12.51	-2.89	1.73
1396	27.1738	6.140401	7.713499	1396	0.76	-12.51	-2.89	1.73
1397	27.18717	6.169054	7.741047	1397	0.76	-12.49	-2.89	1.73
1398	27.18717	6.169054	7.727273	1398	0.76	-12.49	-2.89	1.73
1399	27.20053	6.183381	7.754821	1399	0.75	-12.5	-2.89	1.72
1400	27.16043	6.197708	7.727273	1400	0.76	-12.51	-2.89	1.72
1401	27.09358	6.226361	7.754821	1401	0.76	-12.51	-2.89	1.73
1402	27.14706	6.226361	7.768595	1402	0.76	-12.52	-2.89	1.73
1403	27.18717	6.197708	7.796143	1403	0.76	-12.52	-2.89	1.72
1404	27.16043	6.183381	7.741047	1404	0.75	-12.53	-2.9	1.72
1405	27.20053	6.140401	7.782369	1405	0.74	-12.52	-2.9	1.71
1406	27.16043	6.154728	7.727273	1406	0.75	-12.52	-2.9	1.72
1407	27.1738	6.212034	7.713499	1407	0.75	-12.53	-2.9	1.71
1408	27.1738	6.226361	7.699725	1408	0.75	-12.53	-2.9	1.71
1409	27.1738	6.240688	7.727273	1409	0.75	-12.53	-2.9	1.71
1410	27.1738	6.183381	7.672176	1410	0.75	-12.51	-2.9	1.72
1411	27.14706	6.154728	7.727273	1411	0.75	-12.49	-2.9	1.72
1412	27.16043	6.169054	7.741047	1412	0.75	-12.45	-2.9	1.72

1413	27.18717	6.183381	7.741047	1413	0.75	-12.44	-2.9	1.71
1414	27.1738	6.183381	7.713499	1414	0.75	-12.43	-2.9	1.71
1415	27.20053	6.126074	7.754821	1415	0.75	-12.42	-2.9	1.71
1416	27.22727	6.111748	7.741047	1416	0.75	-12.41	-2.9	1.71
1417	27.16043	6.126074	7.741047	1417	0.75	-12.39	-2.89	1.71
1418	27.10695	6.140401	7.809917	1418	0.76	-12.38	-2.88	1.72
1419	27.13369	6.154728	7.727273	1419	0.77	-12.38	-2.88	1.72
1420	27.18717	6.183381	7.68595	1420	0.76	-12.39	-2.88	1.72
1421	27.22727	6.169054	7.713499	1421	0.76	-12.41	-2.88	1.72
1422	27.22727	6.154728	7.741047	1422	0.77	-12.44	-2.87	1.72
1423	27.24064	6.183381	7.741047	1423	0.77	-12.46	-2.87	1.73
1424	27.20053	6.154728	7.727273	1424	0.77	-12.48	-2.87	1.73
1425	27.20053	6.111748	7.768595	1425	0.77	-12.5	-2.87	1.73
1426	27.22727	6.097421	7.768595	1426	0.77	-12.51	-2.88	1.73
1427	27.2139	6.140401	7.741047	1427	0.77	-12.51	-2.88	1.73
1428	27.22727	6.154728	7.741047	1428	0.77	-12.49	-2.88	1.73
1429	27.2139	6.197708	7.741047	1429	0.76	-12.48	-2.89	1.72
1430	27.20053	6.197708	7.741047	1430	0.76	-12.49	-2.88	1.73
1431	27.20053	6.169054	7.768595	1431	0.76	-12.5	-2.88	1.73
1432	27.1738	6.183381	7.768595	1432	0.75	-12.5	-2.89	1.72
1433	27.13369	6.183381	7.768595	1433	0.76	-12.51	-2.89	1.72
1434	27.14706	6.197708	7.713499	1434	0.76	-12.5	-2.88	1.73
1435	27.16043	6.154728	7.699725	1435	0.76	-12.5	-2.88	1.73
1436	27.20053	6.111748	7.68595	1436	0.76	-12.5	-2.88	1.73
1437	27.20053	6.140401	7.672176	1437	0.75	-12.48	-2.89	1.72
1438	27.2139	6.169054	7.699725	1438	0.75	-12.46	-2.89	1.72
1439	27.20053	6.169054	7.741047	1439	0.76	-12.42	-2.88	1.73
1440	27.24064	6.212034	7.796143	1440	0.76	-12.39	-2.88	1.73
1441	27.24064	6.183381	7.754821	1441	0.76	-12.39	-2.87	1.73
1442	27.22727	6.169054	7.741047	1442	0.76	-12.37	-2.87	1.73
1443	27.20053	6.126074	7.727273	1443	0.77	-12.35	-2.86	1.74
1444	27.2139	6.154728	7.727273	1444	0.77	-12.35	-2.86	1.74
1445	27.26738	6.197708	7.727273	1445	0.78	-12.35	-2.85	1.74
1446	27.26738	6.183381	7.727273	1446	0.79	-12.36	-2.85	1.75
1447	27.22727	6.183381	7.782369	1447	0.79	-12.34	-2.84	1.75
1448	27.20053	6.169054	7.796143	1448	0.79	-12.36	-2.84	1.75
1449	27.16043	6.169054	7.809917	1449	0.79	-12.36	-2.84	1.75
1450	27.16043	6.169054	7.782369	1450	0.79	-12.35	-2.84	1.74
1451	27.18717	6.183381	7.713499	1451	0.8	-12.34	-2.84	1.75
1452	27.16043	6.212034	7.699725	1452	0.79	-12.35	-2.84	1.74
1453	27.1738	6.212034	7.741047	1453	0.79	-12.36	-2.85	1.74
1454	27.2139	6.183381	7.741047	1454	0.8	-12.37	-2.84	1.74
1455	27.2139	6.183381	7.699725	1455	0.79	-12.38	-2.84	1.74
1456	27.2139	6.183381	7.699725	1456	0.79	-12.38	-2.84	1.74
1457	27.22727	6.197708	7.782369	1457	0.8	-12.37	-2.84	1.74

1458	27.24064	6.183381	7.741047	1458	0.79	-12.35	-2.85	1.74
1459	27.20053	6.183381	7.754821	1459	0.8	-12.35	-2.84	1.75
1460	27.12032	6.197708	7.713499	1460	0.8	-12.32	-2.83	1.75
1461	27.1738	6.169054	7.713499	1461	0.8	-12.35	-2.84	1.75
1462	27.22727	6.169054	7.741047	1462	0.8	-12.4	-2.84	1.75
1463	27.20053	6.154728	7.782369	1463	0.8	-12.4	-2.84	1.75
1464	27.1738	6.212034	7.782369	1464	0.8	-12.4	-2.84	1.75
1465	27.20053	6.240688	7.796143	1465	0.8	-12.39	-2.84	1.75
1466	27.20053	6.183381	7.796143	1466	0.8	-12.37	-2.84	1.75
1467	27.2139	6.169054	7.768595	1467	0.8	-12.37	-2.84	1.75
1468	27.20053	6.169054	7.741047	1468	0.8	-12.39	-2.84	1.75
1469	27.16043	6.183381	7.741047	1469	0.8	-12.38	-2.84	1.75
1470	27.2139	6.169054	7.699725	1470	0.8	-12.37	-2.84	1.75
1471	27.1738	6.197708	7.699725	1471	0.8	-12.36	-2.84	1.75
1472	27.14706	6.183381	7.741047	1472	0.8	-12.37	-2.83	1.75
1473	27.14706	6.169054	7.809917	1473	0.8	-12.37	-2.84	1.75
1474	27.16043	6.212034	7.768595	1474	0.8	-12.37	-2.85	1.75
1475	27.20053	6.154728	7.796143	1475	0.8	-12.37	-2.84	1.75
1476	27.22727	6.183381	7.823691	1476	0.8	-12.36	-2.84	1.75
1477	27.1738	6.197708	7.796143	1477	0.8	-12.37	-2.84	1.75
1478	27.18717	6.197708	7.768595	1478	0.79	-12.39	-2.84	1.75
1479	27.18717	6.197708	7.768595	1479	0.8	-12.38	-2.84	1.75
1480	27.1738	6.197708	7.768595	1480	0.8	-12.35	-2.84	1.75
1481	27.20053	6.183381	7.768595	1481	0.8	-12.37	-2.83	1.75
1482	27.20053	6.226361	7.727273	1482	0.81	-12.4	-2.83	1.76
1483	27.20053	6.183381	7.727273	1483	0.8	-12.43	-2.84	1.75
1484	27.1738	6.183381	7.727273	1484	0.8	-12.44	-2.84	1.76
1485	27.16043	6.126074	7.754821	1485	0.8	-12.43	-2.84	1.76
1486	27.14706	6.126074	7.741047	1486	0.8	-12.44	-2.84	1.75
1487	27.16043	6.154728	7.782369	1487	0.8	-12.42	-2.84	1.76
1488	27.14706	6.183381	7.768595	1488	0.79	-12.41	-2.84	1.75
1489	27.16043	6.212034	7.782369	1489	0.79	-12.42	-2.85	1.75
1490	27.16043	6.197708	7.713499	1490	0.8	-12.42	-2.84	1.76
1491	27.13369	6.197708	7.727273	1491	0.8	-12.41	-2.84	1.76
1492	27.16043	6.183381	7.741047	1492	0.8	-12.4	-2.84	1.76
1493	27.1738	6.169054	7.754821	1493	0.8	-12.4	-2.84	1.76
1494	27.14706	6.212034	7.727273	1494	0.8	-12.42	-2.83	1.76
1495	27.18717	6.255014	7.699725	1495	0.81	-12.41	-2.83	1.77
1496	27.18717	6.240688	7.768595	1496	0.81	-12.4	-2.83	1.77
1497	27.2139	6.197708	7.823691	1497	0.8	-12.41	-2.83	1.76
1498	27.14706	6.197708	7.782369	1498	0.8	-12.4	-2.83	1.76
1499	27.14706	6.169054	7.741047	1499	0.8	-12.39	-2.84	1.76
1500	27.13369	6.240688	7.768595	1500	0.79	-12.4	-2.84	1.75
1501	27.12032	6.255014	7.754821	1501	0.79	-12.42	-2.84	1.75
1502	27.13369	6.269341	7.796143	1502	0.8	-12.44	-2.83	1.76

1503	27.2139	6.240688	7.754821	1503	0.8	-12.46	-2.84	1.75
1504	27.20053	6.240688	7.741047	1504	0.78	-12.48	-2.85	1.74
1505	27.1738	6.212034	7.713499	1505	0.79	-12.48	-2.85	1.75
1506	27.20053	6.212034	7.768595	1506	0.79	-12.47	-2.85	1.75
1507	27.1738	6.197708	7.741047	1507	0.79	-12.45	-2.85	1.75
1508	27.16043	6.183381	7.713499	1508	0.79	-12.43	-2.85	1.75
1509	27.1738	6.197708	7.754821	1509	0.79	-12.41	-2.85	1.75
1510	27.20053	6.240688	7.809917	1510	0.79	-12.39	-2.84	1.76
1511	27.1738	6.197708	7.768595	1511	0.79	-12.37	-2.82	1.75
1512	27.13369	6.197708	7.741047	1512	0.79	-12.38	-2.81	1.75
1513	27.14706	6.197708	7.754821	1513	0.8	-12.37	-2.81	1.76
1514	27.16043	6.212034	7.741047	1514	0.8	-12.36	-2.8	1.77
1515	27.14706	6.226361	7.727273	1515	0.8	-12.36	-2.8	1.77
1516	27.16043	6.212034	7.768595	1516	0.8	-12.37	-2.81	1.77
1517	27.20053	6.183381	7.796143	1517	0.8	-12.38	-2.81	1.76
1518	27.20053	6.154728	7.727273	1518	0.81	-12.37	-2.81	1.77
1519	27.13369	6.212034	7.741047	1519	0.81	-12.36	-2.81	1.77
1520	27.10695	6.226361	7.699725	1520	0.81	-12.36	-2.82	1.77
1521	27.12032	6.226361	7.741047	1521	0.81	-12.37	-2.82	1.76
1522	27.14706	6.212034	7.754821	1522	0.81	-12.39	-2.82	1.76
1523	27.14706	6.197708	7.741047	1523	0.8	-12.39	-2.82	1.76
1524	27.13369	6.183381	7.741047	1524	0.81	-12.38	-2.82	1.76
1525	27.18717	6.183381	7.782369	1525	0.81	-12.37	-2.82	1.76
1526	27.13369	6.212034	7.754821	1526	0.81	-12.36	-2.82	1.76
1527	27.16043	6.183381	7.699725	1527	0.81	-12.36	-2.82	1.76
1528	27.18717	6.226361	7.741047	1528	0.81	-12.36	-2.82	1.76
1529	27.1738	6.226361	7.699725	1529	0.82	-12.35	-2.81	1.77
1530	27.10695	6.197708	7.741047	1530	0.82	-12.36	-2.82	1.76
1531	27.14706	6.197708	7.754821	1531	0.82	-12.38	-2.82	1.77
1532	27.14706	6.212034	7.727273	1532	0.81	-12.39	-2.82	1.76
1533	27.20053	6.226361	7.68595	1533	0.82	-12.38	-2.82	1.76
1534	27.18717	6.240688	7.754821	1534	0.82	-12.35	-2.82	1.76
1535	27.16043	6.197708	7.754821	1535	0.81	-12.4	-2.82	1.76
1536	27.2139	6.197708	7.741047	1536	0.82	-12.43	-2.81	1.77
1537	27.18717	6.212034	7.782369	1537	0.83	-12.43	-2.81	1.78
1538	27.18717	6.197708	7.768595	1538	0.82	-12.46	-2.81	1.77
1539	27.22727	6.212034	7.768595	1539	0.82	-12.46	-2.82	1.77
1540	27.1738	6.226361	7.796143	1540	0.81	-12.47	-2.83	1.77
1541	27.1738	6.183381	7.768595	1541	0.81	-12.47	-2.83	1.76
1542	27.18717	6.212034	7.754821	1542	0.8	-12.47	-2.84	1.76
1543	27.16043	6.226361	7.727273	1543	0.8	-12.45	-2.83	1.76
1544	27.16043	6.240688	7.630854	1544	0.8	-12.43	-2.84	1.76
1545	27.1738	6.283668	7.68595	1545	0.8	-12.42	-2.84	1.76
1546	27.1738	6.226361	7.699725	1546	0.79	-12.41	-2.84	1.75
1547	27.18717	6.283668	7.741047	1547	0.79	-12.39	-2.84	1.75

1548	27.13369	6.255014	7.768595	1548	0.8	-12.37	-2.84	1.76
1549	27.13369	6.269341	7.713499	1549	0.8	-12.39	-2.84	1.75
1550	27.20053	6.255014	7.68595	1550	0.8	-12.41	-2.83	1.76
1551	27.12032	6.226361	7.713499	1551	0.8	-12.44	-2.83	1.76
1552	27.09358	6.226361	7.754821	1552	0.8	-12.43	-2.83	1.76
1553	27.12032	6.226361	7.713499	1553	0.8	-12.42	-2.83	1.76
1554	27.12032	6.169054	7.768595	1554	0.8	-12.41	-2.83	1.76
1555	27.13369	6.183381	7.768595	1555	0.81	-12.4	-2.83	1.76
1556	27.10695	6.212034	7.768595	1556	0.8	-12.4	-2.83	1.76
1557	27.14706	6.169054	7.713499	1557	0.81	-12.41	-2.83	1.76
1558	27.14706	6.154728	7.754821	1558	0.81	-12.42	-2.83	1.76
1559	27.12032	6.197708	7.782369	1559	0.8	-12.43	-2.83	1.76
1560	27.13369	6.226361	7.754821	1560	0.8	-12.44	-2.83	1.76
1561	27.14706	6.183381	7.754821	1561	0.8	-12.45	-2.83	1.76
1562	27.1738	6.183381	7.809917	1562	0.8	-12.46	-2.83	1.76
1563	27.1738	6.212034	7.727273	1563	0.8	-12.47	-2.83	1.76
1564	27.20053	6.240688	7.713499	1564	0.8	-12.49	-2.83	1.76
1565	27.2139	6.240688	7.727273	1565	0.79	-12.48	-2.84	1.76
1566	27.24064	6.212034	7.713499	1566	0.79	-12.49	-2.84	1.76
1567	27.25401	6.212034	7.741047	1567	0.8	-12.51	-2.84	1.76
1568	27.2139	6.212034	7.741047	1568	0.8	-12.5	-2.84	1.76
1569	27.16043	6.197708	7.768595	1569	0.79	-12.5	-2.84	1.76
1570	27.16043	6.212034	7.823691	1570	0.78	-12.51	-2.85	1.75
1571	27.18717	6.255014	7.754821	1571	0.78	-12.49	-2.85	1.75
1572	27.16043	6.240688	7.741047	1572	0.78	-12.46	-2.86	1.75
1573	27.1738	6.255014	7.68595	1573	0.78	-12.42	-2.85	1.76
1574	27.12032	6.269341	7.672176	1574	0.78	-12.4	-2.85	1.75
1575	27.14706	6.240688	7.713499	1575	0.78	-12.38	-2.85	1.75
1576	27.13369	6.226361	7.796143	1576	0.79	-12.38	-2.84	1.76
1577	27.1738	6.269341	7.809917	1577	0.8	-12.39	-2.84	1.76
1578	27.14706	6.212034	7.782369	1578	0.8	-12.39	-2.83	1.76
1579	27.1738	6.169054	7.754821	1579	0.79	-12.39	-2.84	1.75
1580	27.20053	6.197708	7.699725	1580	0.79	-12.37	-2.83	1.76
1581	27.1738	6.212034	7.68595	1581	0.8	-12.38	-2.83	1.76
1582	27.20053	6.169054	7.713499	1582	0.8	-12.38	-2.84	1.75
1583	27.1738	6.183381	7.768595	1583	0.81	-12.37	-2.83	1.76
1584	27.1738	6.240688	7.754821	1584	0.8	-12.38	-2.84	1.75
1585	27.20053	6.226361	7.713499	1585	0.8	-12.37	-2.83	1.75
1586	27.1738	6.240688	7.713499	1586	0.81	-12.37	-2.83	1.76
1587	27.1738	6.212034	7.754821	1587	0.81	-12.38	-2.82	1.76
1588	27.20053	6.240688	7.741047	1588	0.81	-12.38	-2.83	1.76
1589	27.1738	6.212034	7.741047	1589	0.81	-12.39	-2.82	1.76
1590	27.14706	6.240688	7.754821	1590	0.81	-12.38	-2.82	1.76
1591	27.20053	6.212034	7.754821	1591	0.82	-12.36	-2.81	1.77
1592	27.1738	6.212034	7.782369	1592	0.81	-12.36	-2.82	1.76

1593	27.14706	6.255014	7.796143	1593	0.82	-12.36	-2.82	1.77
1594	27.20053	6.240688	7.727273	1594	0.82	-12.36	-2.82	1.77
1595	27.14706	6.212034	7.727273	1595	0.81	-12.4	-2.82	1.77
1596	27.16043	6.212034	7.741047	1596	0.82	-12.41	-2.81	1.77
1597	27.1738	6.226361	7.741047	1597	0.82	-12.43	-2.81	1.78
1598	27.1738	6.197708	7.727273	1598	0.82	-12.45	-2.81	1.78
1599	27.1738	6.212034	7.754821	1599	0.82	-12.46	-2.82	1.77
1600	27.1738	6.212034	7.713499	1600	0.83	-12.47	-2.81	1.78
1601	27.22727	6.240688	7.644628	1601	0.82	-12.45	-2.82	1.78
1602	27.2139	6.269341	7.630854	1602	0.82	-12.42	-2.82	1.78
1603	27.22727	6.240688	7.658402	1603	0.82	-12.4	-2.82	1.78
1604	27.22727	6.197708	7.713499	1604	0.82	-12.36	-2.82	1.77
1605	27.20053	6.226361	7.754821	1605	0.82	-12.38	-2.82	1.77
1606	27.1738	6.226361	7.713499	1606	0.82	-12.38	-2.82	1.77

Deli_exp_C

Experiment type: Deliquescence experiment. The regolith type is JSC Mars-1 in this experiment, with a thickness of 2 cm. The initial weight was 447.27 g. Calcium perchlorate was added at 5 wt% increasing the mass to 469.62 g. The humidity buffer was LiCl which has a RH of 11.31 at 0 degrees Celsius. Temperature around the sample was controlled by the chiller, and the sample averaged 1.5 degrees Celsius.

Thermocouple: 1= upper atmosphere 2= lower atmosphere 3= humidity buffer 4= sample

Hygrometers: 2= sample 3= atmosphere 4= humidity buffer

Mass Min.	Mass	RH Min.	Ch02	Ch03	Ch04	T Min.	Ch01	Ch02	Ch03	Ch04
0	471.35	1	29.3262	5.595989	8.319559	0	21.61	-9.91	-3.09	8.78
5	474.95	2	28.91176	5.595989	8.374656	1	20.64	-10.74	-3	7.88
10	475.04	3	27.76203	5.753582	8.347107	2	7.99	-11.61	-2.93	5.74
15	475.08	4	26.35829	5.882521	8.484848	3	7.11	-8.92	0.65	4.03
20	475.11	5	24.60695	6.140401	8.15427	4	-1.17	-11.99	1.82	2.71
25	475.17	6	22.73529	6.498567	7.093664	5	-1.94	-12.26	-0.76	1.5
30	475.24	7	21.63904	6.799427	6.267218	6	-1.44	-12.29	-2.04	0.72
35	475.33	8	21.0107	6.985673	5.881543	7	-1.07	-12.31	-2.48	0.22
40	475.42	9	20.52941	7.028653	5.702479	8	-1.01	-12.33	-2.58	-0.14
45	475.48	10	20.22193	6.985673	5.606061	9	-0.68	-12.34	-2.31	-0.32

50	475.54	11	20.08824	6.985673	5.743802	10	-0.5	-12.31	-1.8	-0.34
55	475.59	12	20.03476	6.942693	5.977961	11	-0.38	-12.28	-1.28	-0.22
60	475.63	13	20.11497	6.899713	6.239669	12	-0.32	-12.26	-0.92	-0.02
65	475.66	14	20.26203	6.899713	6.487603	13	-0.27	-12.27	-0.75	0.22
70	475.69	15	20.42246	6.87106	6.707989	14	-0.19	-12.26	-0.67	0.46
75	475.72	16	20.63636	6.87106	6.887052	15	-0.11	-12.23	-0.65	0.69
80	475.74	17	20.91711	6.842407	7.024793	16	-0.06	-12.24	-0.69	0.88
85	475.77	18	21.15775	6.856734	7.134986	17	-0.08	-12.27	-0.8	1.03
90	475.80	19	21.38503	6.813754	7.286501	18	0.02	-12.28	-0.97	1.11
95	475.82	20	21.59893	6.813754	7.286501	19	0.06	-12.29	-1.11	1.19
100	475.84	21	21.81283	6.82808	7.300275	20	0.1	-12.3	-1.25	1.25
105	475.86	22	22.02674	6.856734	7.369146	21	0.13	-12.29	-1.38	1.31
110	475.87	23	22.2139	6.842407	7.341598	22	0.15	-12.27	-1.51	1.35
115	475.88	24	22.33422	6.770774	7.38292	23	0.18	-12.24	-1.63	1.38
120	475.90	25	22.49465	6.74212	7.410468	24	0.2	-12.24	-1.75	1.41
125	475.93	26	22.65508	6.770774	7.369146	25	0.22	-12.24	-1.87	1.44
130	475.93	27	22.76203	6.756447	7.341598	26	0.24	-12.23	-1.98	1.46
135	475.94	28	22.88235	6.756447	7.38292	27	0.25	-12.22	-2.1	1.48
140	475.95	29	23.02941	6.74212	7.369146	28	0.28	-12.19	-2.2	1.5
145	475.97	30	23.08289	6.756447	7.369146	29	0.3	-12.21	-2.29	1.51
150	475.98	31	23.14973	6.756447	7.410468	30	0.3	-12.21	-2.41	1.5
155	475.99	32	23.22995	6.770774	7.355372	31	0.32	-12.19	-2.51	1.51
160	476.00	33	23.27005	6.74212	7.327824	32	0.34	-12.18	-2.6	1.52
165	476.01	34	23.31016	6.727794	7.300275	33	0.35	-12.17	-2.68	1.51
170	476.02	35	23.41711	6.74212	7.217631	34	0.36	-12.18	-2.77	1.51
175	476.03	36	23.48396	6.770774	7.258953	35	0.31	-12.17	-2.86	1.49
180	476.05	37	23.5508	6.74212	7.300275	36	0.29	-12.16	-2.93	1.5
185	476.06	38	23.59091	6.713467	7.272727	37	0.31	-12.16	-3.01	1.48
190	476.07	39	23.71123	6.684814	7.286501	38	0.32	-12.17	-3.08	1.47
195	476.08	40	23.77807	6.713467	7.217631	39	0.3	-12.19	-3.15	1.46
200	476.09	41	23.81818	6.69914	7.162534	40	0.29	-12.2	-3.22	1.44
205	476.10	42	23.8984	6.641834	7.162534	41	0.29	-12.19	-3.29	1.41
210	476.12	43	23.95187	6.641834	7.14876	42	0.29	-12.17	-3.34	1.39
215	476.13	44	23.97861	6.670487	7.14876	43	0.31	-12.19	-3.38	1.39
220	476.14	45	24.01872	6.627507	7.162534	44	0.31	-12.2	-3.45	1.37
225	476.15	46	24.08556	6.627507	7.134986	45	0.31	-12.22	-3.51	1.36
230	476.16	47	24.07219	6.670487	7.14876	46	0.32	-12.22	-3.55	1.36
235	476.18	48	24.08556	6.670487	7.121212	47	0.32	-12.22	-3.61	1.34
240	476.19	49	24.08556	6.684814	7.107438	48	0.33	-12.23	-3.66	1.33
245	476.21	50	24.16578	6.727794	7.066116	49	0.33	-12.22	-3.71	1.32
250	476.22	51	24.17914	6.69914	7.052342	50	0.34	-12.18	-3.75	1.3
255	476.23	52	24.21925	6.69914	7.052342	51	0.35	-12.16	-3.78	1.3
260	476.24	53	24.16578	6.69914	7.038567	52	0.36	-12.14	-3.82	1.28
265	476.25	54	24.19251	6.69914	7.038567	53	0.36	-12.13	-3.85	1.27
270	476.27	55	24.24599	6.69914	7.052342	54	0.37	-12.12	-3.89	1.26

275	476.28	56	24.3262	6.670487	7.052342	55	0.37	-12.11	-3.92	1.25
280	476.30	57	24.3262	6.670487	6.969697	56	0.37	-12.12	-3.96	1.24
285	476.31	58	24.36631	6.69914	7.011019	57	0.38	-12.12	-4	1.22
290	476.32	59	24.40642	6.670487	7.107438	58	0.38	-12.1	-4.03	1.21
295	476.34	60	24.43316	6.684814	7.052342	59	0.39	-12.1	-4.06	1.21
300	476.34	61	24.43316	6.641834	6.969697	60	0.4	-12.11	-4.08	1.21
305	476.36	62	24.41979	6.613181	6.955923	61	0.41	-12.12	-4.1	1.21
310	476.37	63	24.45989	6.641834	6.969697	62	0.41	-12.12	-4.12	1.2
315	476.38	64	24.52674	6.641834	6.969697	63	0.42	-12.12	-4.14	1.2
320	476.40	65	24.51337	6.584527	6.900826	64	0.41	-12.13	-4.17	1.19
325	476.41	66	24.45989	6.598854	6.983471	65	0.41	-12.14	-4.19	1.19
330	476.42	67	24.5	6.613181	6.955923	66	0.42	-12.12	-4.2	1.19
335	476.43	68	24.51337	6.641834	6.914601	67	0.42	-12.13	-4.21	1.19
340	476.44	69	24.52674	6.65616	6.942149	68	0.44	-12.12	-4.22	1.18
345	476.45	70	24.56684	6.670487	6.955923	69	0.43	-12.11	-4.24	1.17
350	476.47	71	24.54011	6.684814	6.983471	70	0.44	-12.1	-4.24	1.17
355	476.47	72	24.51337	6.684814	6.942149	71	0.45	-12.09	-4.24	1.17
360	476.49	73	24.56684	6.684814	6.955923	72	0.46	-12.08	-4.23	1.17
365	476.50	74	24.59358	6.713467	6.928375	73	0.48	-12.08	-4.23	1.18
370	476.52	75	24.55348	6.713467	6.914601	74	0.48	-12.08	-4.23	1.17
		76	24.60695	6.670487	6.983471	75	0.49	-12.09	-4.23	1.18
		77	24.64706	6.627507	6.997245	76	0.5	-12.11	-4.23	1.18
		78	24.66043	6.627507	7.011019	77	0.5	-12.13	-4.23	1.17
		79	24.66043	6.627507	6.983471	78	0.51	-12.14	-4.24	1.17
		80	24.66043	6.627507	6.955923	79	0.51	-12.16	-4.24	1.17
		81	24.70053	6.598854	6.887052	80	0.52	-12.16	-4.24	1.17
		82	24.7139	6.598854	6.900826	81	0.53	-12.15	-4.23	1.17
		83	24.75401	6.65616	6.942149	82	0.53	-12.15	-4.24	1.16
		84	24.79412	6.69914	6.955923	83	0.54	-12.14	-4.24	1.16
		85	24.80749	6.65616	6.983471	84	0.54	-12.11	-4.23	1.17
		86	24.80749	6.627507	6.942149	85	0.55	-12.09	-4.23	1.16
		87	24.79412	6.641834	6.969697	86	0.55	-12.07	-4.22	1.17
		88	24.76738	6.627507	6.928375	87	0.57	-12.09	-4.21	1.17
		89	24.75401	6.584527	6.900826	88	0.57	-12.12	-4.21	1.17
		90	24.82086	6.584527	6.928375	89	0.58	-12.12	-4.2	1.17
		91	24.87433	6.613181	6.969697	90	0.59	-12.14	-4.2	1.17
		92	24.82086	6.65616	7.024793	91	0.59	-12.14	-4.2	1.17
		93	24.84759	6.65616	7.011019	92	0.6	-12.14	-4.19	1.18
		94	24.8877	6.627507	7.024793	93	0.61	-12.15	-4.18	1.18
		95	24.87433	6.641834	7.038567	94	0.61	-12.13	-4.18	1.18
		96	24.87433	6.613181	7.052342	95	0.61	-12.11	-4.18	1.18
		97	24.86096	6.598854	7.038567	96	0.63	-12.08	-4.16	1.19
		98	24.8877	6.613181	6.997245	97	0.63	-12.07	-4.15	1.18
		99	24.91444	6.613181	6.983471	98	0.65	-12.05	-4.14	1.18
		100	24.91444	6.584527	6.983471	99	0.64	-12.05	-4.13	1.18

101	24.92781	6.598854	6.955923	100	0.65	-12.04	-4.12	1.19
102	24.95455	6.570201	6.955923	101	0.67	-12.05	-4.1	1.19
103	24.92781	6.584527	6.942149	102	0.67	-12.06	-4.09	1.19
104	24.92781	6.570201	6.983471	103	0.68	-12.06	-4.08	1.2
105	24.96791	6.584527	6.997245	104	0.69	-12.06	-4.07	1.2
106	24.98128	6.598854	6.983471	105	0.69	-12.07	-4.07	1.2
107	24.96791	6.584527	7.011019	106	0.69	-12.07	-4.06	1.2
108	24.99465	6.584527	7.07989	107	0.7	-12.06	-4.06	1.2
109	25.03476	6.598854	7.038567	108	0.71	-12.05	-4.04	1.21
110	25.04813	6.584527	7.024793	109	0.71	-12.07	-4.03	1.2
111	25.0615	6.570201	7.011019	110	0.72	-12.08	-4.02	1.21
112	25.0615	6.541547	6.969697	111	0.73	-12.09	-4.01	1.22
113	25.0615	6.527221	7.024793	112	0.74	-12.1	-4.01	1.21
114	25.1016	6.598854	6.955923	113	0.74	-12.11	-4	1.22
115	25.07487	6.598854	6.955923	114	0.74	-12.13	-3.99	1.22
116	25.03476	6.541547	6.997245	115	0.75	-12.14	-3.99	1.22
117	25.0615	6.584527	6.983471	116	0.74	-12.14	-3.99	1.22
118	25.0615	6.584527	7.011019	117	0.75	-12.14	-3.99	1.22
119	25.07487	6.527221	7.038567	118	0.75	-12.14	-3.98	1.22
120	25.0615	6.527221	7.066116	119	0.75	-12.13	-3.97	1.23
121	25.07487	6.584527	7.038567	120	0.76	-12.14	-3.96	1.23
122	25.0615	6.584527	7.038567	121	0.75	-12.15	-3.95	1.24
123	25.1016	6.598854	7.07989	122	0.76	-12.14	-3.93	1.25
124	25.07487	6.570201	7.093664	123	0.75	-12.16	-3.93	1.24
125	25.12834	6.584527	7.07989	124	0.76	-12.16	-3.92	1.25
126	25.14171	6.613181	7.14876	125	0.76	-12.15	-3.91	1.25
127	25.14171	6.627507	7.07989	126	0.76	-12.13	-3.9	1.25
128	25.16845	6.613181	7.107438	127	0.78	-12.12	-3.88	1.26
129	25.14171	6.584527	7.066116	128	0.78	-12.12	-3.87	1.27
130	25.11497	6.598854	7.038567	129	0.79	-12.11	-3.87	1.27
131	25.11497	6.570201	7.107438	130	0.79	-12.09	-3.85	1.27
132	25.12834	6.613181	7.107438	131	0.8	-12.06	-3.83	1.27
133	25.14171	6.641834	7.093664	132	0.79	-12.05	-3.82	1.27
134	25.14171	6.598854	7.038567	133	0.8	-12.03	-3.82	1.27
135	25.18182	6.570201	7.038567	134	0.8	-12.01	-3.82	1.27
136	25.19519	6.555874	7.052342	135	0.81	-11.99	-3.8	1.28
137	25.20856	6.570201	7.038567	136	0.82	-11.99	-3.79	1.29
138	25.23529	6.570201	7.066116	137	0.83	-11.99	-3.78	1.29
139	25.20856	6.584527	7.052342	138	0.83	-11.99	-3.79	1.29
140	25.18182	6.570201	7.024793	139	0.84	-11.98	-3.79	1.3
141	25.16845	6.598854	7.024793	140	0.84	-11.99	-3.8	1.3
142	25.19519	6.527221	7.038567	141	0.84	-12.01	-3.8	1.3
143	25.22193	6.512894	7.093664	142	0.84	-12.01	-3.81	1.3
144	25.22193	6.555874	7.066116	143	0.85	-12.02	-3.81	1.3
145	25.22193	6.598854	7.052342	144	0.86	-12.01	-3.8	1.31

146	25.22193	6.613181	7.066116	145	0.86	-12.01	-3.8	1.31
147	25.20856	6.584527	7.07989	146	0.87	-11.99	-3.8	1.32
148	25.18182	6.555874	7.134986	147	0.87	-12.01	-3.8	1.32
149	25.18182	6.570201	7.107438	148	0.88	-12.03	-3.79	1.33
150	25.22193	6.570201	7.134986	149	0.88	-12.04	-3.77	1.33
151	25.23529	6.584527	7.052342	150	0.88	-12.06	-3.75	1.33
152	25.22193	6.598854	7.038567	151	0.89	-12.07	-3.72	1.34
153	25.22193	6.527221	7.038567	152	0.89	-12.07	-3.7	1.34
154	25.2754	6.541547	7.024793	153	0.89	-12.08	-3.66	1.34
155	25.30214	6.555874	7.093664	154	0.89	-12.1	-3.62	1.33
156	25.28877	6.555874	7.107438	155	0.89	-12.09	-3.59	1.34
157	25.30214	6.555874	7.066116	156	0.89	-12.07	-3.55	1.34
158	25.28877	6.527221	7.052342	157	0.9	-12.03	-3.52	1.34
159	25.30214	6.555874	7.038567	158	0.9	-12.01	-3.49	1.35
160	25.23529	6.541547	7.07989	159	0.91	-12.04	-3.49	1.35
161	25.2754	6.541547	7.07989	160	0.91	-12.04	-3.48	1.35
162	25.31551	6.541547	7.07989	161	0.91	-12.03	-3.48	1.35
163	25.34225	6.555874	7.038567	162	0.91	-12.02	-3.48	1.35
164	25.32888	6.598854	7.038567	163	0.92	-12	-3.46	1.36
165	25.31551	6.555874	7.066116	164	0.93	-11.99	-3.44	1.37
166	25.31551	6.555874	7.052342	165	0.93	-11.98	-3.43	1.37
167	25.35561	6.555874	7.07989	166	0.94	-11.97	-3.4	1.38
168	25.31551	6.498567	7.066116	167	0.95	-11.97	-3.37	1.38
169	25.32888	6.541547	7.07989	168	0.95	-11.97	-3.35	1.38
170	25.30214	6.570201	7.07989	169	0.95	-11.97	-3.35	1.38
171	25.28877	6.584527	7.093664	170	0.95	-11.97	-3.33	1.39
172	25.34225	6.555874	7.07989	171	0.96	-11.97	-3.31	1.4
173	25.35561	6.541547	7.107438	172	0.95	-11.97	-3.29	1.39
174	25.34225	6.541547	7.121212	173	0.95	-11.97	-3.27	1.39
175	25.32888	6.527221	7.121212	174	0.97	-11.95	-3.27	1.4
176	25.28877	6.555874	7.121212	175	0.97	-11.95	-3.27	1.4
177	25.28877	6.613181	7.162534	176	0.97	-11.94	-3.25	1.41
178	25.30214	6.570201	7.162534	177	0.98	-11.93	-3.2	1.41
179	25.35561	6.541547	7.107438	178	0.98	-11.93	-3.16	1.42
180	25.34225	6.527221	7.093664	179	0.98	-11.93	-3.13	1.42
181	25.30214	6.570201	7.134986	180	0.99	-11.92	-3.1	1.43
182	25.34225	6.541547	7.093664	181	1	-11.92	-3.1	1.43
183	25.39572	6.527221	7.134986	182	1	-11.93	-3.09	1.43
184	25.40909	6.527221	7.121212	183	1.01	-11.96	-3.05	1.44
185	25.38235	6.512894	7.14876	184	1	-12	-3.19	1.44
186	25.39572	6.527221	7.121212	185	1	-12.02	-3.36	1.44
187	25.40909	6.541547	7.07989	186	1	-12.03	-3.35	1.43
188	25.40909	6.541547	7.093664	187	1	-12.01	-3.27	1.44
189	25.34225	6.527221	7.121212	188	1	-12	-3.19	1.45
190	25.35561	6.512894	7.107438	189	1	-11.96	-3.11	1.45

191	25.38235	6.512894	7.093664	190	1.01	-11.95	-3.06	1.45
192	25.36898	6.555874	7.107438	191	1.02	-11.95	-3.04	1.46
193	25.39572	6.527221	7.07989	192	1.02	-11.97	-3.03	1.46
194	25.40909	6.541547	7.066116	193	1.02	-12	-3.02	1.47
195	25.39572	6.570201	7.038567	194	1.02	-12	-3.03	1.48
196	25.38235	6.555874	7.093664	195	1.02	-12.01	-3.01	1.49
197	25.42246	6.541547	7.093664	196	1.03	-11.99	-2.96	1.5
198	25.46257	6.527221	7.134986	197	1.03	-11.97	-2.93	1.51
199	25.47594	6.570201	7.134986	198	1.02	-11.99	-2.94	1.5
200	25.47594	6.555874	7.14876	199	1.02	-12.02	-2.93	1.49
201	25.50267	6.541547	7.107438	200	1.03	-12.01	-2.92	1.5
202	25.47594	6.584527	7.176309	201	1.03	-11.98	-2.9	1.51
203	25.4893	6.527221	7.231405	202	1.04	-11.96	-2.88	1.51
204	25.4492	6.555874	7.190083	203	1.05	-11.96	-2.86	1.52
205	25.43583	6.570201	7.162534	204	1.05	-11.95	-2.86	1.52
206	25.4893	6.527221	7.134986	205	1.05	-11.93	-2.85	1.52
207	25.51604	6.527221	7.14876	206	1.05	-11.94	-2.85	1.52
208	25.51604	6.512894	7.14876	207	1.05	-11.95	-2.86	1.52
209	25.50267	6.498567	7.07989	208	1.05	-11.96	-2.87	1.52
210	25.4893	6.484241	7.066116	209	1.05	-11.95	-2.85	1.52
211	25.47594	6.498567	7.134986	210	1.06	-11.94	-2.83	1.53
212	25.51604	6.527221	7.162534	211	1.07	-11.91	-2.82	1.53
213	25.54278	6.541547	7.162534	212	1.07	-11.92	-2.81	1.53
214	25.54278	6.541547	7.203857	213	1.07	-11.96	-2.79	1.53
215	25.4893	6.512894	7.190083	214	1.07	-11.98	-2.82	1.53
216	25.47594	6.512894	7.162534	215	1.07	-12	-2.81	1.53
217	25.47594	6.555874	7.176309	216	1.08	-11.99	-2.84	1.54
218	25.52941	6.541547	7.176309	217	1.08	-12.01	-2.83	1.54
219	25.52941	6.541547	7.14876	218	1.08	-12.02	-2.81	1.54
220	25.51604	6.512894	7.107438	219	1.07	-12.02	-2.81	1.54
221	25.50267	6.498567	7.14876	220	1.08	-12.01	-2.79	1.54
222	25.42246	6.484241	7.217631	221	1.07	-12.02	-2.79	1.54
223	25.4492	6.498567	7.217631	222	1.07	-12.04	-2.79	1.55
224	25.54278	6.512894	7.190083	223	1.07	-12.04	-2.78	1.55
225	25.52941	6.498567	7.176309	224	1.07	-12.05	-2.78	1.55
226	25.51604	6.512894	7.190083	225	1.08	-12.05	-2.77	1.55
227	25.56952	6.541547	7.203857	226	1.07	-12.06	-2.78	1.55
228	25.56952	6.512894	7.203857	227	1.07	-12.05	-2.78	1.55
229	25.51604	6.541547	7.162534	228	1.08	-12.05	-2.77	1.56
230	25.54278	6.541547	7.190083	229	1.09	-12.04	-2.75	1.57
231	25.52941	6.498567	7.162534	230	1.09	-12.05	-2.75	1.57
232	25.58289	6.484241	7.217631	231	1.09	-12.05	-2.75	1.58
233	25.60963	6.498567	7.217631	232	1.09	-12.04	-2.75	1.57
234	25.55615	6.498567	7.176309	233	1.09	-12.04	-2.75	1.57
235	25.52941	6.527221	7.176309	234	1.09	-12.05	-2.74	1.57

236	25.55615	6.527221	7.162534	235	1.09	-12.04	-2.74	1.57
237	25.56952	6.498567	7.190083	236	1.1	-12.04	-2.74	1.58
238	25.62299	6.484241	7.203857	237	1.1	-12.03	-2.73	1.57
239	25.62299	6.498567	7.162534	238	1.09	-12.04	-2.73	1.57
240	25.59626	6.527221	7.14876	239	1.09	-12.04	-2.73	1.57
241	25.55615	6.527221	7.134986	240	1.09	-12.05	-2.73	1.57
242	25.55615	6.512894	7.176309	241	1.09	-12.05	-2.73	1.57
243	25.56952	6.555874	7.162534	242	1.09	-12.05	-2.73	1.57
244	25.58289	6.527221	7.217631	243	1.09	-12.04	-2.73	1.58
245	25.54278	6.512894	7.231405	244	1.1	-12.04	-2.72	1.59
246	25.58289	6.527221	7.176309	245	1.1	-12.03	-2.72	1.59
247	25.60963	6.555874	7.176309	246	1.11	-12.01	-2.71	1.6
248	25.63636	6.555874	7.190083	247	1.11	-12.01	-2.71	1.6
249	25.64973	6.541547	7.162534	248	1.11	-12.01	-2.71	1.6
250	25.63636	6.512894	7.176309	249	1.11	-12.02	-2.71	1.6
251	25.59626	6.527221	7.190083	250	1.12	-11.99	-2.7	1.61
252	25.55615	6.555874	7.203857	251	1.12	-11.96	-2.7	1.61
253	25.56952	6.484241	7.176309	252	1.12	-11.95	-2.69	1.61
254	25.63636	6.484241	7.176309	253	1.12	-11.94	-2.69	1.61
255	25.62299	6.484241	7.190083	254	1.13	-11.92	-2.68	1.62
256	25.56952	6.527221	7.217631	255	1.13	-11.91	-2.67	1.62
257	25.59626	6.541547	7.217631	256	1.13	-11.91	-2.67	1.62
258	25.62299	6.527221	7.245179	257	1.15	-11.89	-2.65	1.64
259	25.62299	6.527221	7.190083	258	1.15	-11.9	-2.64	1.64
260	25.59626	6.512894	7.176309	259	1.15	-11.89	-2.64	1.64
261	25.56952	6.498567	7.14876	260	1.15	-11.89	-2.64	1.64
262	25.62299	6.498567	7.203857	261	1.15	-11.91	-2.64	1.64
263	25.63636	6.484241	7.217631	262	1.15	-11.93	-2.62	1.64
264	25.63636	6.512894	7.203857	263	1.16	-11.94	-2.66	1.64
265	25.60963	6.469914	7.217631	264	1.15	-11.96	-2.66	1.64
266	25.63636	6.469914	7.231405	265	1.15	-11.98	-2.66	1.64
267	25.68984	6.498567	7.231405	266	1.15	-11.98	-2.64	1.64
268	25.62299	6.455587	7.176309	267	1.15	-12	-2.64	1.64
269	25.62299	6.498567	7.190083	268	1.15	-12.01	-2.64	1.64
270	25.62299	6.512894	7.162534	269	1.16	-12.01	-2.64	1.65
271	25.59626	6.455587	7.258953	270	1.16	-12.02	-2.64	1.65
272	25.60963	6.484241	7.258953	271	1.16	-12.03	-2.63	1.65
273	25.59626	6.469914	7.231405	272	1.16	-12.01	-2.63	1.65
274	25.52941	6.498567	7.245179	273	1.16	-12.01	-2.63	1.65
275	25.56952	6.484241	7.245179	274	1.16	-12.01	-2.63	1.66
276	25.62299	6.469914	7.258953	275	1.16	-11.99	-2.63	1.66
277	25.62299	6.455587	7.190083	276	1.16	-12.01	-2.63	1.66
278	25.68984	6.469914	7.190083	277	1.16	-12.01	-2.63	1.66
279	25.67647	6.455587	7.286501	278	1.16	-12.01	-2.63	1.66
280	25.64973	6.484241	7.272727	279	1.16	-12.02	-2.62	1.67

281	25.70321	6.498567	7.258953	280	1.16	-12.01	-2.62	1.67
282	25.68984	6.512894	7.203857	281	1.16	-11.99	-2.62	1.68
283	25.68984	6.484241	7.231405	282	1.17	-11.97	-2.61	1.68
284	25.64973	6.527221	7.300275	283	1.16	-11.94	-2.61	1.68
285	25.63636	6.512894	7.272727	284	1.17	-11.93	-2.6	1.68
286	25.6631	6.555874	7.245179	285	1.18	-11.95	-2.59	1.69
287	25.62299	6.527221	7.272727	286	1.18	-11.95	-2.59	1.69
288	25.68984	6.512894	7.300275	287	1.18	-11.95	-2.59	1.69
289	25.74332	6.541547	7.272727	288	1.19	-11.95	-2.58	1.7
290	25.71658	6.541547	7.245179	289	1.18	-11.96	-2.59	1.69
291	25.70321	6.541547	7.272727	290	1.18	-11.96	-2.59	1.7
292	25.68984	6.512894	7.231405	291	1.19	-11.99	-2.59	1.69
293	25.67647	6.541547	7.217631	292	1.19	-12	-2.59	1.69
294	25.64973	6.527221	7.217631	293	1.19	-12.01	-2.59	1.69
295	25.6631	6.570201	7.203857	294	1.18	-12.02	-2.6	1.69
296	25.62299	6.512894	7.231405	295	1.19	-12.03	-2.6	1.69
297	25.64973	6.484241	7.258953	296	1.18	-12.03	-2.6	1.69
298	25.64973	6.498567	7.258953	297	1.19	-12.01	-2.6	1.7
299	25.64973	6.541547	7.272727	298	1.19	-12	-2.59	1.7
300	25.67647	6.512894	7.286501	299	1.2	-11.96	-2.59	1.71
301	25.67647	6.512894	7.231405	300	1.2	-11.93	-2.58	1.71
302	25.72995	6.498567	7.258953	301	1.2	-11.92	-2.58	1.71
303	25.75668	6.512894	7.258953	302	1.2	-11.9	-2.57	1.71
304	25.75668	6.512894	7.300275	303	1.21	-11.88	-2.56	1.72
305	25.74332	6.512894	7.327824	304	1.22	-11.87	-2.55	1.72
306	25.67647	6.527221	7.300275	305	1.22	-11.87	-2.55	1.72
307	25.70321	6.512894	7.327824	306	1.21	-11.91	-2.55	1.72
308	25.68984	6.469914	7.369146	307	1.22	-11.93	-2.54	1.73
309	25.67647	6.469914	7.327824	308	1.22	-11.96	-2.55	1.73
310	25.6631	6.512894	7.300275	309	1.22	-11.96	-2.55	1.73
311	25.70321	6.512894	7.327824	310	1.22	-11.94	-2.55	1.73
312	25.70321	6.484241	7.31405	311	1.22	-11.9	-2.54	1.74
313	25.71658	6.484241	7.327824	312	1.23	-11.91	-2.55	1.74
314	25.70321	6.498567	7.327824	313	1.23	-11.93	-2.54	1.74
315	25.6631	6.541547	7.31405	314	1.23	-11.95	-2.54	1.75
316	25.64973	6.498567	7.286501	315	1.23	-11.96	-2.53	1.75
317	25.63636	6.498567	7.272727	316	1.24	-11.97	-2.53	1.76
318	25.6631	6.512894	7.300275	317	1.23	-11.98	-2.53	1.76
319	25.72995	6.527221	7.369146	318	1.23	-11.99	-2.53	1.76
320	25.74332	6.555874	7.369146	319	1.23	-11.97	-2.53	1.76
321	25.74332	6.527221	7.341598	320	1.23	-11.96	-2.54	1.75
322	25.72995	6.512894	7.300275	321	1.23	-11.95	-2.54	1.75
323	25.75668	6.527221	7.286501	322	1.22	-11.95	-2.54	1.74
324	25.81016	6.541547	7.341598	323	1.22	-11.93	-2.54	1.74
325	25.74332	6.527221	7.286501	324	1.22	-11.91	-2.54	1.74

326	25.71658	6.512894	7.355372	325	1.22	-11.92	-2.54	1.74
327	25.70321	6.512894	7.369146	326	1.23	-11.92	-2.53	1.74
328	25.70321	6.555874	7.355372	327	1.23	-11.92	-2.52	1.74
329	25.6631	6.541547	7.327824	328	1.24	-11.91	-2.52	1.75
330	25.6631	6.541547	7.31405	329	1.23	-11.94	-2.52	1.74
331	25.68984	6.555874	7.327824	330	1.23	-11.96	-2.53	1.74
332	25.74332	6.498567	7.355372	331	1.23	-11.97	-2.52	1.75
333	25.74332	6.498567	7.355372	332	1.23	-11.99	-2.53	1.75
334	25.75668	6.455587	7.341598	333	1.23	-11.99	-2.53	1.75
335	25.71658	6.484241	7.369146	334	1.24	-11.99	-2.53	1.76
336	25.71658	6.527221	7.38292	335	1.24	-12	-2.52	1.77
337	25.75668	6.498567	7.341598	336	1.24	-12	-2.52	1.77
338	25.71658	6.527221	7.286501	337	1.24	-11.99	-2.52	1.77
339	25.70321	6.555874	7.327824	338	1.24	-12.01	-2.52	1.77
340	25.74332	6.570201	7.369146	339	1.24	-12.01	-2.52	1.77
341	25.75668	6.541547	7.355372	340	1.24	-12	-2.52	1.77
342	25.75668	6.527221	7.300275	341	1.25	-11.99	-2.52	1.78
343	25.74332	6.512894	7.300275	342	1.25	-11.99	-2.52	1.78
344	25.78342	6.527221	7.341598	343	1.25	-11.99	-2.51	1.78
345	25.75668	6.512894	7.355372	344	1.25	-11.98	-2.51	1.78
346	25.77005	6.498567	7.355372	345	1.25	-12	-2.51	1.78
347	25.77005	6.498567	7.355372	346	1.24	-12	-2.52	1.77
348	25.79679	6.469914	7.327824	347	1.25	-11.99	-2.52	1.78
349	25.75668	6.484241	7.31405	348	1.24	-11.98	-2.52	1.78
350	25.74332	6.484241	7.300275	349	1.24	-11.96	-2.52	1.77
351	25.77005	6.469914	7.327824	350	1.25	-11.95	-2.51	1.78
352	25.77005	6.498567	7.31405	351	1.25	-11.93	-2.51	1.78
353	25.74332	6.498567	7.286501	352	1.25	-11.91	-2.51	1.78
354	25.74332	6.512894	7.341598	353	1.26	-11.88	-2.49	1.79
355	25.75668	6.498567	7.341598	354	1.27	-11.87	-2.48	1.8
356	25.78342	6.484241	7.355372	355	1.26	-11.88	-2.48	1.79
357	25.79679	6.469914	7.341598	356	1.26	-11.87	-2.48	1.8
358	25.77005	6.512894	7.355372	357	1.26	-11.85	-2.47	1.8
359	25.72995	6.541547	7.355372	358	1.27	-11.87	-2.46	1.81
360	25.75668	6.498567	7.355372	359	1.27	-11.88	-2.46	1.81
361	25.72995	6.498567	7.327824	360	1.27	-11.87	-2.46	1.81

Deli_exp_D

Experiment type: Deliquescence experiment. The regolith type is JSC Mars-1 in this experiment, with a thickness of 3.5 cm. The initial weight was 602.31 g. Calcium perchlorate was added at 1 wt% increasing the mass to 608.33 g. The humidity buffer was LiCl which has a RH of 11.31 at

0 degrees Celsius. Temperature around the sample was controlled by the chiller, and the sample averaged 2 degrees Celsius.

Thermocouple: 1= upper atmosphere 2= lower atmosphere 3= humidity buffer 4= sample

Hygrometers: 2= sample 3= atmosphere 4= humidity buffer

Mass		RH				T				
Min.	Mass	Min.	Ch02	Ch03	Ch04	Min.	Ch01	Ch02	Ch03	Ch04
0	621.63	1	26.89305	6.083095	8.209366	0	22.08	-8.45	-2.67	-8.02
5	621.80	2	26.13102	6.154728	8.22314	1	15.65	-11.51	-2.7	-7.5
10	622.14	3	24.60695	6.383954	8.181818	2	5.28	-12.4	-2.87	-6.57
15	622.21	4	23.12299	6.65616	8.126722	3	4.88	-12.3	-3.08	-5.84
20	622.32	5	21.79947	6.95702	8.168044	4	1.89	-11.99	-1.74	-5.31
25	622.4	6	20.36898	7.25788	7.61708	5	-2.5	-12.56	-2.69	-4.92
30	622.45	7	19.36631	7.501433	6.873278	6	-1.8	-12.56	-3.62	-4.6
35	622.5	8	18.97861	7.601719	6.37741	7	-1.24	-12.58	-3.84	-4.32
40	622.55	9	18.85829	7.659026	6.046832	8	-1	-12.58	-3.83	-4.09
45	622.59	10	18.81818	7.702006	5.895317	9	-0.59	-12.59	-3.57	-3.88
50	622.62	11	18.84492	7.716332	5.867769	10	-0.26	-12.59	-3.16	-3.69
55	622.64	12	18.96524	7.659026	5.964187	11	-0.01	-12.55	-2.68	-3.5
60	622.67	13	19.13904	7.573066	6.101928	12	0.19	-12.56	-2.27	-3.32
65	622.7	14	19.39305	7.515759	6.322314	13	0.33	-12.58	-1.97	-3.15
70	622.72	15	19.66043	7.530086	6.570248	14	0.43	-12.59	-1.81	-2.96
75	622.74	16	19.95455	7.472779	6.790634	15	0.49	-12.58	-1.76	-2.78
80	622.75	17	20.23529	7.472779	7.011019	16	0.53	-12.57	-1.81	-2.59
85	622.77	18	20.54278	7.472779	7.14876	17	0.55	-12.56	-1.9	-2.41
90	622.78	19	20.89037	7.472779	7.258953	18	0.57	-12.55	-2.01	-2.24
95	622.79	20	21.17112	7.429799	7.355372	19	0.58	-12.54	-2.12	-2.08
100	622.8	21	21.41176	7.358166	7.438017	20	0.61	-12.53	-2.22	-1.92
105	622.82	22	21.67914	7.372493	7.548209	21	0.64	-12.51	-2.33	-1.76
110	622.83	23	21.94652	7.386819	7.548209	22	0.68	-12.52	-2.43	-1.58
115	622.84	24	22.14706	7.372493	7.506887	23	0.7	-12.55	-2.52	-1.43
120	622.86	25	22.26738	7.315186	7.534435	24	0.73	-12.56	-2.6	-1.27
125	622.87	26	22.42781	7.286533	7.658402	25	0.75	-12.58	-2.7	-1.13
130	622.88	27	22.65508	7.272206	7.61708	26	0.74	-12.57	-2.78	-1.01
135	622.89	28	22.84225	7.25788	7.575758	27	0.76	-12.53	-2.85	-0.87
140	622.9	29	23.00267	7.243553	7.575758	28	0.78	-12.51	-2.9	-0.74
145	622.91	30	23.08289	7.2149	7.548209	29	0.78	-12.49	-2.97	-0.62
150	622.93	31	23.13636	7.229226	7.575758	30	0.79	-12.48	-3.03	-0.52
155	622.94	32	23.22995	7.2149	7.520661	31	0.8	-12.48	-3.08	-0.4
160	622.95	33	23.3369	7.2149	7.506887	32	0.8	-12.48	-3.14	-0.3

165	622.96	34	23.48396	7.243553	7.520661	33	0.8	-12.46	-3.2	-0.2
170	622.98	35	23.61765	7.25788	7.520661	34	0.8	-12.48	-3.26	-0.11
175	622.99	36	23.69786	7.200573	7.548209	35	0.81	-12.48	-3.32	-0.02
180	623	37	23.75134	7.229226	7.479339	36	0.81	-12.49	-3.37	0.07
185	623.01	38	23.81818	7.200573	7.438017	37	0.82	-12.48	-3.42	0.16
190	623.02	39	23.91176	7.2149	7.493113	38	0.83	-12.47	-3.47	0.25
195	623.03	40	23.95187	7.157593	7.520661	39	0.82	-12.47	-3.51	0.32
200	623.05	41	23.99198	7.157593	7.493113	40	0.82	-12.5	-3.56	0.4
205	623.05	42	24.05882	7.157593	7.438017	41	0.83	-12.5	-3.59	0.49
210	623.07	43	24.09893	7.157593	7.438017	42	0.83	-12.51	-3.64	0.55
215	623.08	44	24.13904	7.143266	7.438017	43	0.83	-12.54	-3.69	0.62
220	623.09	45	24.17914	7.186246	7.424242	44	0.84	-12.54	-3.73	0.69
225	623.11	46	24.23262	7.2149	7.465565	45	0.83	-12.55	-3.77	0.75
230	623.12	47	24.29947	7.157593	7.520661	46	0.83	-12.56	-3.81	0.81
235	623.13	48	24.36631	7.114613	7.493113	47	0.83	-12.56	-3.84	0.88
240	623.14	49	24.36631	7.100287	7.451791	48	0.84	-12.56	-3.87	0.94
245	623.15	50	24.39305	7.057307	7.424242	49	0.84	-12.55	-3.9	0.99
250	623.16	51	24.48663	7.08596	7.424242	50	0.84	-12.57	-3.93	1.04
		52	24.51337	7.08596	7.465565	51	0.84	-12.56	-3.96	1.1
		53	24.51337	7.157593	7.451791	52	0.85	-12.57	-3.98	1.15
		54	24.45989	7.17192	7.424242	53	0.85	-12.57	-4.01	1.2
		55	24.51337	7.143266	7.479339	54	0.85	-12.58	-4.04	1.24
		56	24.60695	7.17192	7.520661	55	0.85	-12.56	-4.06	1.29
		57	24.56684	7.157593	7.520661	56	0.85	-12.55	-4.09	1.33
		58	24.66043	7.12894	7.506887	57	0.85	-12.53	-4.11	1.37
		59	24.7139	7.08596	7.493113	58	0.86	-12.5	-4.12	1.41
		60	24.72727	7.08596	7.534435	59	0.86	-12.48	-4.13	1.45
		61	24.75401	7.157593	7.479339	60	0.87	-12.46	-4.15	1.49
		62	24.78075	7.143266	7.534435	61	0.87	-12.45	-4.16	1.52
		63	24.83422	7.114613	7.561983	62	0.88	-12.45	-4.17	1.55
		64	24.86096	7.08596	7.561983	63	0.89	-12.45	-4.18	1.59
		65	24.92781	7.100287	7.603306	64	0.91	-12.43	-4.18	1.63
		66	24.96791	7.08596	7.575758	65	0.92	-12.42	-4.19	1.67
		67	24.94118	7.08596	7.561983	66	0.91	-12.43	-4.21	1.69
		68	24.92781	7.071633	7.589532	67	0.92	-12.43	-4.23	1.72
		69	24.98128	7.04298	7.603306	68	0.92	-12.45	-4.24	1.74
		70	25.02139	7.071633	7.630854	69	0.92	-12.47	-4.26	1.77
		71	25.00802	7.057307	7.630854	70	0.93	-12.49	-4.27	1.8
		72	25.03476	7.04298	7.575758	71	0.94	-12.49	-4.28	1.83
		73	25.0615	7.071633	7.589532	72	0.95	-12.48	-4.29	1.86
		74	25.07487	7.08596	7.61708	73	0.95	-12.49	-4.31	1.89
		75	25.08824	7.12894	7.575758	74	0.95	-12.51	-4.32	1.91
		76	25.0615	7.157593	7.561983	75	0.95	-12.53	-4.27	1.94
		77	25.11497	7.12894	7.575758	76	0.95	-12.53	-4.31	1.96
		78	25.1016	7.114613	7.603306	77	0.94	-12.53	-4.33	1.98

79	25.16845	7.12894	7.61708	78	0.95	-12.53	-4.35	2.01
80	25.24866	7.114613	7.603306	79	0.95	-12.54	-4.36	2.03
81	25.20856	7.143266	7.575758	80	0.95	-12.55	-4.36	2.05
82	25.14171	7.157593	7.603306	81	0.96	-12.55	-4.37	2.08
83	25.15508	7.100287	7.644628	82	0.96	-12.54	-4.37	2.1
84	25.20856	7.08596	7.603306	83	0.96	-12.54	-4.38	2.11
85	25.22193	7.028653	7.630854	84	0.96	-12.54	-4.38	2.13
86	25.22193	7	7.603306	85	0.97	-12.55	-4.38	2.15
87	25.22193	6.985673	7.603306	86	0.97	-12.53	-4.38	2.16
88	25.23529	7.028653	7.630854	87	0.98	-12.53	-4.37	2.18
89	25.20856	7.028653	7.672176	88	0.97	-12.52	-4.38	2.19
90	25.20856	7.04298	7.672176	89	0.98	-12.5	-4.37	2.21
91	25.28877	7.057307	7.672176	90	0.98	-12.48	-4.36	2.22
92	25.22193	7.04298	7.658402	91	0.98	-12.45	-4.35	2.24
93	25.24866	7.028653	7.672176	92	0.98	-12.46	-4.34	2.25
94	25.30214	7	7.644628	93	0.99	-12.45	-4.32	2.27
95	25.28877	7.057307	7.699725	94	1	-12.43	-4.31	2.28
96	25.2754	7.057307	7.782369	95	1.01	-12.39	-4.29	2.3
97	25.30214	7.028653	7.713499	96	1.01	-12.41	-4.27	2.31
98	25.32888	7.014327	7.630854	97	1.01	-12.4	-4.26	2.32
99	25.36898	7.057307	7.658402	98	1.01	-12.41	-4.24	2.33
100	25.35561	7.014327	7.644628	99	1.02	-12.4	-4.22	2.34
101	25.35561	7	7.658402	100	1.02	-12.4	-4.19	2.36
102	25.36898	7.014327	7.727273	101	1.03	-12.39	-4.15	2.37
103	25.42246	7.04298	7.727273	102	1.03	-12.39	-4.12	2.38
104	25.47594	7	7.754821	103	1.04	-12.38	-4.08	2.39
105	25.4492	6.95702	7.727273	104	1.04	-12.37	-4.04	2.4
106	25.42246	7.014327	7.727273	105	1.05	-12.39	-3.99	2.41
107	25.42246	7.014327	7.754821	106	1.05	-12.42	-3.95	2.42
108	25.4492	6.985673	7.68595	107	1.05	-12.45	-3.92	2.43
109	25.39572	6.985673	7.713499	108	1.04	-12.48	-3.9	2.43
110	25.39572	6.971347	7.741047	109	1.05	-12.48	-3.88	2.44
111	25.46257	6.971347	7.699725	110	1.05	-12.48	-3.86	2.45
112	25.4492	6.95702	7.672176	111	1.05	-12.49	-3.83	2.46
113	25.43583	6.971347	7.68595	112	1.05	-12.5	-3.79	2.48
114	25.43583	6.985673	7.699725	113	1.05	-12.49	-3.75	2.49
115	25.47594	7.028653	7.68595	114	1.05	-12.49	-3.72	2.5
116	25.46257	7	7.68595	115	1.05	-12.49	-3.7	2.51
117	25.47594	6.95702	7.713499	116	1.05	-12.5	-3.67	2.51
118	25.47594	6.971347	7.61708	117	1.05	-12.5	-3.64	2.52
119	25.50267	6.942693	7.589532	118	1.05	-12.5	-3.61	2.52
120	25.52941	6.928367	7.630854	119	1.05	-12.49	-3.58	2.53
121	25.50267	6.95702	7.68595	120	1.05	-12.49	-3.56	2.54
122	25.46257	6.971347	7.713499	121	1.06	-12.49	-3.52	2.55
123	25.54278	6.95702	7.672176	122	1.07	-12.48	-3.5	2.56

124	25.56952	6.942693	7.68595	123	1.06	-12.49	-3.48	2.56
125	25.59626	6.95702	7.727273	124	1.07	-12.48	-3.45	2.58
126	25.63636	6.985673	7.699725	125	1.08	-12.48	-3.42	2.59
127	25.52941	6.971347	7.699725	126	1.08	-12.49	-3.4	2.59
128	25.52941	6.971347	7.699725	127	1.07	-12.5	-3.39	2.59
129	25.58289	6.95702	7.658402	128	1.07	-12.48	-3.38	2.6
130	25.62299	6.971347	7.630854	129	1.07	-12.46	-3.37	2.6
131	25.56952	6.95702	7.644628	130	1.07	-12.45	-3.37	2.6
132	25.56952	6.971347	7.658402	131	1.07	-12.43	-3.36	2.61
133	25.63636	6.95702	7.630854	132	1.07	-12.42	-3.38	2.62
134	25.70321	6.971347	7.672176	133	1.08	-12.4	-3.36	2.63
135	25.70321	6.928367	7.658402	134	1.09	-12.4	-3.33	2.63
136	25.63636	6.899713	7.644628	135	1.09	-12.4	-3.3	2.64
137	25.60963	6.91404	7.658402	136	1.1	-12.38	-3.28	2.65
138	25.58289	6.985673	7.672176	137	1.09	-12.37	-3.28	2.64
139	25.56952	6.928367	7.699725	138	1.1	-12.36	-3.26	2.65
140	25.62299	6.928367	7.672176	139	1.1	-12.36	-3.25	2.66
141	25.6631	6.928367	7.68595	140	1.1	-12.36	-3.24	2.66
142	25.64973	6.91404	7.672176	141	1.1	-12.34	-3.24	2.66
143	25.64973	6.885387	7.699725	142	1.1	-12.35	-3.23	2.66
144	25.6631	6.91404	7.699725	143	1.11	-12.36	-3.23	2.67
145	25.67647	6.942693	7.699725	144	1.12	-12.37	-3.22	2.68
146	25.67647	6.942693	7.727273	145	1.13	-12.36	-3.2	2.69
147	25.64973	6.928367	7.699725	146	1.13	-12.34	-3.2	2.7
148	25.70321	6.928367	7.672176	147	1.13	-12.34	-3.19	2.7
149	25.75668	6.928367	7.68595	148	1.14	-12.33	-3.18	2.71
150	25.70321	6.928367	7.672176	149	1.13	-12.33	-3.19	2.7
151	25.67647	6.942693	7.672176	150	1.14	-12.32	-3.18	2.71
152	25.70321	6.91404	7.630854	151	1.14	-12.34	-3.17	2.72
153	25.68984	6.928367	7.630854	152	1.14	-12.38	-3.17	2.72
154	25.74332	6.91404	7.68595	153	1.14	-12.39	-3.17	2.73
155	25.74332	6.928367	7.658402	154	1.14	-12.41	-3.16	2.74
156	25.75668	6.928367	7.68595	155	1.14	-12.41	-3.17	2.74
157	25.74332	6.985673	7.713499	156	1.14	-12.42	-3.17	2.74
158	25.75668	6.971347	7.727273	157	1.15	-12.42	-3.17	2.75
159	25.75668	6.928367	7.672176	158	1.14	-12.43	-3.18	2.75
160	25.75668	6.942693	7.699725	159	1.14	-12.42	-3.17	2.75
161	25.81016	6.91404	7.768595	160	1.15	-12.39	-3.17	2.76
162	25.79679	6.928367	7.754821	161	1.15	-12.37	-3.19	2.76
163	25.8369	6.928367	7.754821	162	1.14	-12.36	-3.17	2.75
164	25.78342	6.899713	7.741047	163	1.14	-12.36	-3.16	2.75
165	25.79679	6.91404	7.768595	164	1.15	-12.34	-3.15	2.76
166	25.81016	6.899713	7.68595	165	1.15	-12.33	-3.15	2.76
167	25.77005	6.91404	7.754821	166	1.16	-12.32	-3.14	2.77
168	25.75668	6.899713	7.754821	167	1.15	-12.33	-3.13	2.77

169	25.78342	6.899713	7.782369	168	1.15	-12.34	-3.13	2.77
170	25.81016	6.899713	7.713499	169	1.17	-12.33	-3.12	2.78
171	25.78342	6.87106	7.68595	170	1.16	-12.32	-3.12	2.78
172	25.77005	6.87106	7.658402	171	1.17	-12.34	-3.11	2.78
173	25.75668	6.885387	7.713499	172	1.16	-12.37	-3.11	2.79
174	25.81016	6.885387	7.699725	173	1.17	-12.39	-3.11	2.79
175	25.82353	6.87106	7.68595	174	1.17	-12.41	-3.11	2.79
176	25.87701	6.899713	7.672176	175	1.17	-12.42	-3.1	2.8
177	25.87701	6.928367	7.68595	176	1.17	-12.42	-3.1	2.8
178	25.81016	6.91404	7.741047	177	1.18	-12.41	-3.1	2.81
179	25.82353	6.899713	7.727273	178	1.18	-12.37	-3.1	2.82
180	25.82353	6.899713	7.68595	179	1.18	-12.34	-3.09	2.82
181	25.85027	6.885387	7.68595	180	1.17	-12.35	-3.1	2.81
182	25.85027	6.842407	7.727273	181	1.18	-12.37	-3.09	2.82
183	25.81016	6.87106	7.699725	182	1.18	-12.37	-3.09	2.82
184	25.81016	6.87106	7.741047	183	1.18	-12.4	-3.1	2.82
185	25.8369	6.899713	7.741047	184	1.17	-12.4	-3.09	2.83
186	25.87701	6.91404	7.809917	185	1.17	-12.41	-3.09	2.83
187	25.85027	6.87106	7.782369	186	1.17	-12.39	-3.09	2.84
188	25.8369	6.899713	7.754821	187	1.18	-12.35	-3.08	2.85
189	25.87701	6.899713	7.741047	188	1.17	-12.34	-3.09	2.84
190	25.87701	6.91404	7.837466	189	1.18	-12.35	-3.08	2.84
191	25.89037	6.899713	7.837466	190	1.17	-12.33	-3.08	2.84
192	25.89037	6.885387	7.782369	191	1.18	-12.32	-3.07	2.84
193	25.8369	6.885387	7.741047	192	1.18	-12.32	-3.06	2.85
194	25.8369	6.885387	7.754821	193	1.18	-12.32	-3.07	2.84
195	25.85027	6.856734	7.754821	194	1.18	-12.31	-3.07	2.84
196	25.90374	6.91404	7.823691	195	1.19	-12.32	-3.05	2.85
197	25.93048	6.885387	7.823691	196	1.19	-12.34	-3.05	2.86
198	25.91711	6.87106	7.796143	197	1.19	-12.37	-3.05	2.86
199	25.97059	6.885387	7.782369	198	1.2	-12.37	-3.05	2.86
200	25.94385	6.885387	7.727273	199	1.2	-12.36	-3.05	2.86
201	25.86364	6.87106	7.727273	200	1.2	-12.35	-3.04	2.87
202	25.90374	6.856734	7.768595	201	1.2	-12.33	-3.04	2.87
203	25.95722	6.87106	7.754821	202	1.2	-12.33	-3.04	2.87
204	25.95722	6.87106	7.768595	203	1.21	-12.35	-3.04	2.87
205	25.93048	6.87106	7.699725	204	1.21	-12.33	-3.04	2.87
206	25.94385	6.885387	7.713499	205	1.21	-12.34	-3.03	2.88
207	25.91711	6.91404	7.754821	206	1.2	-12.37	-3.04	2.87
208	25.90374	6.899713	7.768595	207	1.2	-12.39	-3.04	2.88
209	25.94385	6.885387	7.809917	208	1.2	-12.4	-3.04	2.87
210	25.90374	6.899713	7.796143	209	1.19	-12.4	-3.05	2.87
211	25.90374	6.885387	7.741047	210	1.19	-12.37	-3.05	2.87
212	25.91711	6.842407	7.754821	211	1.19	-12.35	-3.04	2.88
213	25.95722	6.842407	7.768595	212	1.2	-12.36	-3.04	2.88

214	25.94385	6.856734	7.741047	213	1.19	-12.37	-3.04	2.88
215	25.94385	6.842407	7.713499	214	1.19	-12.38	-3.04	2.88
216	25.98396	6.82808	7.754821	215	1.2	-12.37	-3.04	2.88
217	25.98396	6.885387	7.741047	216	1.2	-12.35	-3.04	2.89
218	25.99733	6.899713	7.782369	217	1.2	-12.32	-3.03	2.89
219	26.0107	6.87106	7.754821	218	1.2	-12.34	-3.02	2.9
220	25.97059	6.856734	7.754821	219	1.2	-12.37	-3.02	2.89
221	25.97059	6.799427	7.782369	220	1.21	-12.39	-3.02	2.9
222	25.95722	6.813754	7.809917	221	1.21	-12.41	-3.02	2.9
223	25.97059	6.885387	7.796143	222	1.2	-12.42	-3.03	2.9
224	25.95722	6.885387	7.741047	223	1.2	-12.41	-3.03	2.9
225	25.95722	6.813754	7.823691	224	1.21	-12.42	-3.02	2.91
226	25.97059	6.799427	7.837466	225	1.2	-12.4	-3.03	2.91
227	25.94385	6.82808	7.823691	226	1.2	-12.36	-3.03	2.91
228	25.99733	6.82808	7.809917	227	1.2	-12.33	-3.02	2.92
229	25.99733	6.856734	7.837466	228	1.21	-12.31	-3.01	2.92
230	26.06417	6.842407	7.823691	229	1.2	-12.3	-3.02	2.92
231	26.02406	6.82808	7.809917	230	1.2	-12.29	-3.01	2.91
232	25.99733	6.87106	7.782369	231	1.21	-12.31	-3.01	2.92
233	26.0107	6.856734	7.754821	232	1.21	-12.29	-3.01	2.91
234	25.98396	6.87106	7.768595	233	1.21	-12.3	-3	2.92
235	26.02406	6.856734	7.823691	234	1.21	-12.31	-3	2.92
236	26.0508	6.856734	7.754821	235	1.21	-12.31	-3	2.92
237	26.06417	6.856734	7.754821	236	1.21	-12.3	-3	2.91
238	26.0508	6.87106	7.796143	237	1.22	-12.31	-2.99	2.92
239	26.03743	6.899713	7.782369	238	1.22	-12.32	-2.99	2.92
240	26.02406	6.87106	7.782369	239	1.23	-12.34	-2.98	2.93
241	26.0508	6.856734	7.865014	240	1.23	-12.33	-2.98	2.93
242	26.11765	6.87106	7.782369	241	1.23	-12.32	-2.98	2.93
243	26.11765	6.885387	7.768595	242	1.23	-12.31	-2.98	2.93
244	26.06417	6.842407	7.741047	243	1.23	-12.29	-2.97	2.94
245	26.0508	6.87106	7.782369	244	1.24	-12.28	-2.97	2.94
246	26.0508	6.856734	7.809917	245	1.24	-12.28	-2.97	2.94
247	26.02406	6.856734	7.837466	246	1.23	-12.27	-2.97	2.94
248	26.03743	6.842407	7.754821	247	1.24	-12.28	-2.96	2.94
249	26.0508	6.842407	7.782369	248	1.24	-12.28	-2.96	2.94
250	26.02406	6.856734	7.809917	249	1.24	-12.27	-2.96	2.94
251	26.02406	6.87106	7.809917	250	1.24	-12.28	-2.96	2.94
252	26.0508	6.82808	7.796143	251	1.23	-12.28	-2.96	2.94
253	26.06417	6.82808	7.754821	252	1.23	-12.29	-2.96	2.94

Deli_exp_F

Experiment type: Deliquescence experiment. The regolith type is JSC Mars-1 in this experiment, with a thickness of 3.5 cm. The initial weight was 636.07 g. Calcium perchlorate was added at 5 wt% increasing the mass to 667.42 g. The humidity buffer was LiCl which has a RH of 11.31 at 0 degrees Celsius. Temperature around the sample was controlled by the chiller, and is in degrees Celsius.

Thermocouple: 1= upper atmosphere 2= lower atmosphere 3= humidity buffer 4= sample

Hygrometers: 2= sample 3= atmosphere 4= humidity buffer

Mass		RH	T							
Min.	Mass	Min.	Ch02	Ch03	Ch04	Min.	Ch01	Ch02	Ch03	Ch04
0	438.90	1	26.23797	2.068768	8.829201	0	14.59	-12.17	-3.44	-8.94
5	441.42	2	25.94385	1.882521	8.815427	1	8.52	-11.21	-3.44	-8.62
10	441.74	3	25.14171	1.295129	8.760331	2	4.19	-11.07	-3.72	-8.15
15	441.78	4	23.96524	0.191977	8.719008	3	-2.24	-12.09	-4.47	-7.97
20	442.93	5	22.65508	0.997135	8.360882	4	-1.51	-12.01	-4.66	-7.85
25	442.04	6	21.69251	1.799427	7.865014	5	-1.1	-12.03	-4.74	-7.7
30	441.88	7	21.2246	2.25788	7.561983	6	-0.88	-12.1	-4.78	-7.53
35	441.63	8	20.94385	2.515759	7.438017	7	-0.5	-12.13	-4.79	-7.3
40	441.45	9	20.70321	2.573066	7.493113	8	-0.15	-12.15	-4.76	-7
45	441.53	10	20.46257	2.472779	7.534435	9	0.06	-12.15	-4.7	-6.63
50	441.55	11	20.20856	2.386819	7.603306	10	0.22	-12.14	-4.63	-6.19
55	441.73	12	20.07487	2.2149	7.699725	11	0.34	-12.11	-4.57	-5.7
60	441.78	13	20.00802	2.014327	7.796143	12	0.44	-12.07	-4.52	-5.22
65	441.63	14	19.91444	1.87106	7.865014	13	0.51	-12.08	-4.47	-4.78
70	441.76	15	19.80749	1.756447	7.961433	14	0.58	-12.08	-4.46	-4.4
75	441.78	16	19.83422	1.641834	8.085399	15	0.66	-12.05	-4.44	-4.05
80	441.98	17	19.79412	1.527221	8.15427	16	0.71	-12.02	-4.42	-3.74
85	441.93	18	19.80749	1.426934	8.112948	17	0.76	-12	-4.4	-3.46
90	441.90	19	19.86096	1.312321	8.126722	18	0.81	-11.99	-4.38	-3.21
95	441.83	20	19.8877	1.212034	8.181818	19	0.84	-12.02	-4.37	-2.99
100	441.96	21	19.94118	1.140401	8.264463	20	0.86	-12.05	-4.36	-2.79
105	441.81	22	19.96791	1.126074	8.264463	21	0.89	-12.07	-4.35	-2.6
110	441.95	23	19.95455	1.040115	8.250689	22	0.91	-12.09	-4.33	-2.42
115	441.85	24	20.03476	1.011461	8.319559	23	0.93	-12.1	-4.32	-2.26
120	442.07	25	20.12834	1.011461	8.333333	24	0.95	-12.09	-4.31	-2.1
125	442.12	26	20.16845	0.968481	8.38843	25	0.97	-12.1	-4.29	-1.96
130	441.95	27	20.18182	0.925501	8.319559	26	0.97	-12.1	-4.28	-1.83
135	442.09	28	20.19519	0.853868	8.305785	27	0.98	-12.11	-4.27	-1.7

140	441.91	29	20.19519	0.782235	8.319559	28	0.99	-12.12	-4.25	-1.58
145	441.96	30	20.18182	0.796562	8.305785	29	1	-12.11	-4.24	-1.46
150	441.98	31	20.2754	0.825215	8.319559	30	1	-12.12	-4.24	-1.36
155	442.06	32	20.32888	0.753582	8.347107	31	1.01	-12.13	-4.23	-1.26
160	442.07	33	20.36898	0.767908	8.319559	32	1.02	-12.12	-4.21	-1.16
165	442.18	34	20.34225	0.782235	8.278237	33	1.03	-12.12	-4.2	-1.07
170	442.09	35	20.34225	0.753582	8.305785	34	1.04	-12.12	-4.19	-0.98
175	442.08	36	20.39572	0.710602	8.292011	35	1.05	-12.11	-4.17	-0.89
180	442.29	37	20.42246	0.724928	8.305785	36	1.05	-12.1	-4.15	-0.8
185	442.12	38	20.51604	0.724928	8.278237	37	1.06	-12.1	-4.14	-0.72
190	442.21	39	20.55615	0.667622	8.264463	38	1.07	-12.09	-4.12	-0.65
195	442.14	40	20.55615	0.610315	8.250689	39	1.08	-12.07	-4.11	-0.58
200	442.13	41	20.54278	0.610315	8.278237	40	1.09	-12.04	-4.1	-0.51
205	442.57	42	20.52941	0.610315	8.278237	41	1.1	-12	-4.08	-0.44
210	442.45	43	20.58289	0.538682	8.264463	42	1.13	-11.98	-4.05	-0.36
		44	20.55615	0.524355	8.236915	43	1.15	-11.96	-4.03	-0.3
		45	20.62299	0.553009	8.236915	44	1.16	-11.94	-4.01	-0.23
		46	20.64973	0.553009	8.195592	45	1.18	-11.93	-4	-0.18
		47	20.62299	0.524355	8.209366	46	1.18	-11.9	-3.99	-0.12
		48	20.62299	0.510029	8.209366	47	1.19	-11.91	-3.98	-0.07
		49	20.62299	0.567335	8.22314	48	1.2	-11.94	-3.96	-0.02
		50	20.6631	0.553009	8.22314	49	1.21	-11.95	-3.94	0.04
		51	20.64973	0.495702	8.209366	50	1.21	-11.99	-3.93	0.08
		52	20.64973	0.452722	8.236915	51	1.21	-12.01	-3.93	0.13
		53	20.6631	0.495702	8.278237	52	1.22	-12.02	-3.92	0.17
		54	20.67647	0.481375	8.250689	53	1.22	-12.03	-3.91	0.22
		55	20.67647	0.510029	8.236915	54	1.22	-12.04	-3.9	0.25
		56	20.67647	0.510029	8.209366	55	1.23	-12.03	-3.89	0.3
		57	20.62299	0.495702	8.195592	56	1.23	-12.02	-3.87	0.34
		58	20.62299	0.467049	8.168044	57	1.24	-12	-3.86	0.39
		59	20.64973	0.452722	8.181818	58	1.25	-12	-3.84	0.43
		60	20.63636	0.409742	8.181818	59	1.24	-12	-3.84	0.46
		61	20.59626	0.409742	8.181818	60	1.25	-12.01	-3.82	0.5
		62	20.62299	0.438395	8.209366	61	1.25	-12.02	-3.81	0.54
		63	20.64973	0.438395	8.278237	62	1.27	-12.01	-3.79	0.58
		64	20.70321	0.424069	8.22314	63	1.28	-12.01	-3.77	0.62
		65	20.70321	0.438395	8.209366	64	1.29	-12.01	-3.76	0.66
		66	20.68984	0.481375	8.195592	65	1.3	-12	-3.75	0.69
		67	20.70321	0.452722	8.181818	66	1.3	-12.01	-3.75	0.72
		68	20.68984	0.424069	8.209366	67	1.31	-12	-3.73	0.76
		69	20.71658	0.438395	8.22314	68	1.3	-12.01	-3.73	0.78
		70	20.6631	0.409742	8.22314	69	1.31	-11.99	-3.71	0.82
		71	20.6631	0.424069	8.15427	70	1.3	-12	-3.7	0.85
		72	20.71658	0.424069	8.140496	71	1.31	-11.98	-3.69	0.88
		73	20.71658	0.395415	8.15427	72	1.32	-11.98	-3.67	0.91

74	20.70321	0.395415	8.181818	73	1.32	-11.97	-3.66	0.94
75	20.71658	0.409742	8.168044	74	1.33	-11.97	-3.65	0.96
76	20.68984	0.438395	8.140496	75	1.34	-11.98	-3.64	0.99
77	20.68984	0.381089	8.22314	76	1.35	-11.97	-3.63	1.02
78	20.68984	0.381089	8.195592	77	1.35	-11.97	-3.62	1.05
79	20.63636	0.366762	8.181818	78	1.36	-11.96	-3.6	1.08
80	20.63636	0.338109	8.181818	79	1.37	-11.96	-3.59	1.1
81	20.63636	0.366762	8.209366	80	1.37	-11.95	-3.58	1.13
82	20.6631	0.395415	8.181818	81	1.38	-11.95	-3.57	1.15
83	20.72995	0.366762	8.181818	82	1.38	-11.95	-3.57	1.17
84	20.71658	0.366762	8.140496	83	1.4	-11.91	-3.55	1.19
85	20.70321	0.352436	8.140496	84	1.41	-11.87	-3.54	1.21
86	20.74332	0.338109	8.209366	85	1.41	-11.85	-3.53	1.23
87	20.67647	0.323782	8.22314	86	1.43	-11.83	-3.51	1.26
88	20.70321	0.309456	8.22314	87	1.43	-11.81	-3.5	1.28
89	20.71658	0.309456	8.264463	88	1.44	-11.8	-3.49	1.3
90	20.70321	0.309456	8.236915	89	1.45	-11.8	-3.48	1.32
91	20.67647	0.309456	8.250689	90	1.45	-11.79	-3.48	1.34
92	20.70321	0.338109	8.236915	91	1.46	-11.79	-3.46	1.36
93	20.68984	0.352436	8.236915	92	1.48	-11.79	-3.44	1.39
94	20.70321	0.338109	8.236915	93	1.49	-11.79	-3.43	1.41
95	20.70321	0.323782	8.236915	94	1.5	-11.78	-3.42	1.43
96	20.71658	0.338109	8.22314	95	1.52	-11.8	-3.41	1.44
97	20.72995	0.352436	8.236915	96	1.52	-11.84	-3.41	1.46
98	20.72995	0.323782	8.236915	97	1.52	-11.87	-3.41	1.46
99	20.71658	0.338109	8.278237	98	1.53	-11.88	-3.4	1.48
100	20.74332	0.352436	8.278237	99	1.53	-11.89	-3.4	1.5
101	20.68984	0.366762	8.250689	100	1.54	-11.9	-3.39	1.51
102	20.72995	0.366762	8.319559	101	1.54	-11.91	-3.39	1.52
103	20.71658	0.352436	8.360882	102	1.55	-11.91	-3.38	1.53
104	20.71658	0.381089	8.360882	103	1.56	-11.92	-3.37	1.55
105	20.67647	0.352436	8.319559	104	1.56	-11.93	-3.37	1.57
106	20.67647	0.338109	8.292011	105	1.56	-11.92	-3.36	1.58
107	20.67647	0.352436	8.250689	106	1.55	-11.9	-3.36	1.59
108	20.64973	0.366762	8.236915	107	1.55	-11.87	-3.36	1.6
109	20.70321	0.381089	8.292011	108	1.55	-11.86	-3.35	1.62
110	20.71658	0.352436	8.305785	109	1.57	-11.82	-3.33	1.64
111	20.70321	0.309456	8.264463	110	1.58	-11.8	-3.32	1.65
112	20.64973	0.295129	8.292011	111	1.59	-11.78	-3.31	1.66
113	20.68984	0.338109	8.264463	112	1.6	-11.78	-3.31	1.68
114	20.71658	0.338109	8.292011	113	1.59	-11.78	-3.3	1.68
115	20.74332	0.323782	8.250689	114	1.6	-11.77	-3.3	1.7
116	20.72995	0.309456	8.278237	115	1.61	-11.76	-3.29	1.71
117	20.67647	0.352436	8.292011	116	1.62	-11.75	-3.28	1.72
118	20.72995	0.338109	8.264463	117	1.62	-11.75	-3.27	1.73

119	20.72995	0.295129	8.319559	118	1.63	-11.73	-3.27	1.74
120	20.72995	0.252149	8.305785	119	1.63	-11.75	-3.26	1.75
121	20.71658	0.209169	8.278237	120	1.64	-11.75	-3.26	1.76
122	20.71658	0.252149	8.292011	121	1.65	-11.75	-3.25	1.78
123	20.71658	0.309456	8.292011	122	1.66	-11.74	-3.24	1.79
124	20.75668	0.295129	8.250689	123	1.66	-11.74	-3.23	1.8
125	20.72995	0.295129	8.264463	124	1.68	-11.78	-3.22	1.81
126	20.75668	0.295129	8.305785	125	1.67	-11.81	-3.22	1.82
127	20.77005	0.266476	8.305785	126	1.68	-11.83	-3.22	1.83
128	20.72995	0.280802	8.278237	127	1.68	-11.86	-3.22	1.84
129	20.70321	0.280802	8.236915	128	1.68	-11.88	-3.22	1.84
130	20.70321	0.295129	8.250689	129	1.68	-11.88	-3.21	1.85
131	20.6631	0.295129	8.236915	130	1.68	-11.85	-3.21	1.86
132	20.67647	0.252149	8.209366	131	1.68	-11.81	-3.2	1.87
133	20.64973	0.266476	8.236915	132	1.69	-11.82	-3.19	1.88
134	20.67647	0.266476	8.250689	133	1.7	-11.83	-3.18	1.9
135	20.70321	0.266476	8.209366	134	1.71	-11.84	-3.18	1.91
136	20.74332	0.280802	8.236915	135	1.72	-11.83	-3.17	1.92
137	20.75668	0.252149	8.22314	136	1.72	-11.83	-3.17	1.92
138	20.70321	0.237822	8.195592	137	1.72	-11.8	-3.17	1.93
139	20.68984	0.223496	8.181818	138	1.73	-11.79	-3.16	1.94
140	20.70321	0.237822	8.181818	139	1.72	-11.78	-3.16	1.95
141	20.68984	0.252149	8.181818	140	1.72	-11.79	-3.16	1.95
142	20.68984	0.237822	8.15427	141	1.72	-11.76	-3.15	1.96
143	20.67647	0.266476	8.181818	142	1.73	-11.76	-3.14	1.97
144	20.67647	0.266476	8.209366	143	1.73	-11.74	-3.14	1.98
145	20.70321	0.237822	8.126722	144	1.74	-11.76	-3.13	1.98
146	20.67647	0.252149	8.126722	145	1.74	-11.76	-3.12	2
147	20.67647	0.252149	8.126722	146	1.74	-11.75	-3.12	2
148	20.71658	0.280802	8.140496	147	1.76	-11.75	-3.11	2.01
149	20.75668	0.309456	8.15427	148	1.76	-11.77	-3.11	2.01
150	20.71658	0.252149	8.112948	149	1.75	-11.79	-3.11	2.02
151	20.75668	0.237822	8.099174	150	1.75	-11.8	-3.11	2.02
152	20.78342	0.266476	8.140496	151	1.74	-11.81	-3.12	2.02
153	20.75668	0.323782	8.099174	152	1.75	-11.78	-3.11	2.03
154	20.75668	0.323782	8.126722	153	1.76	-11.76	-3.11	2.04
155	20.72995	0.338109	8.099174	154	1.75	-11.75	-3.11	2.04
156	20.72995	0.338109	8.15427	155	1.76	-11.75	-3.1	2.05
157	20.72995	0.352436	8.15427	156	1.76	-11.78	-3.1	2.05
158	20.72995	0.309456	8.085399	157	1.76	-11.79	-3.1	2.06
159	20.75668	0.295129	8.140496	158	1.76	-11.76	-3.1	2.06
160	20.70321	0.295129	8.126722	159	1.78	-11.75	-3.08	2.07
161	20.71658	0.280802	8.126722	160	1.78	-11.76	-3.08	2.08
162	20.71658	0.295129	8.099174	161	1.79	-11.77	-3.07	2.09
163	20.75668	0.309456	8.057851	162	1.79	-11.79	-3.07	2.09

164	20.78342	0.323782	8.099174	163	1.79	-11.82	-3.07	2.1
165	20.77005	0.338109	8.085399	164	1.8	-11.82	-3.07	2.11
166	20.72995	0.381089	8.085399	165	1.79	-11.79	-3.06	2.11
167	20.72995	0.323782	8.057851	166	1.8	-11.76	-3.05	2.12
168	20.75668	0.280802	8.071625	167	1.8	-11.74	-3.05	2.12
169	20.75668	0.309456	8.126722	168	1.79	-11.72	-3.05	2.13
170	20.78342	0.295129	8.099174	169	1.8	-11.71	-3.05	2.13
171	20.79679	0.280802	8.044077	170	1.8	-11.71	-3.04	2.14
172	20.78342	0.280802	8.016529	171	1.81	-11.7	-3.03	2.15
173	20.78342	0.295129	8.030303	172	1.82	-11.71	-3.03	2.15
174	20.72995	0.309456	8.071625	173	1.82	-11.72	-3.02	2.16
175	20.77005	0.309456	8.071625	174	1.82	-11.73	-3.02	2.16
176	20.82353	0.295129	8.044077	175	1.83	-11.71	-3.02	2.17
177	20.78342	0.309456	8.071625	176	1.84	-11.71	-3.01	2.17
178	20.81016	0.295129	8.126722	177	1.84	-11.72	-3.01	2.17
179	20.81016	0.295129	8.126722	178	1.84	-11.71	-3.01	2.17
180	20.79679	0.266476	8.085399	179	1.84	-11.71	-3.01	2.18
181	20.74332	0.309456	8.044077	180	1.84	-11.73	-3.01	2.18
182	20.77005	0.237822	8.030303	181	1.84	-11.72	-3	2.19
183	20.75668	0.266476	8.057851	182	1.85	-11.72	-3	2.19
184	20.78342	0.295129	8.071625	183	1.85	-11.71	-3	2.19
185	20.79679	0.295129	8.126722	184	1.84	-11.73	-3	2.19
186	20.78342	0.309456	8.112948	185	1.84	-11.73	-2.99	2.2
187	20.78342	0.266476	8.112948	186	1.85	-11.73	-2.99	2.2
188	20.77005	0.266476	8.071625	187	1.86	-11.73	-2.98	2.21
189	20.75668	0.266476	8.044077	188	1.86	-11.73	-2.97	2.22
190	20.74332	0.295129	8.002755	189	1.86	-11.73	-2.97	2.22
191	20.71658	0.295129	8.002755	190	1.85	-11.72	-2.96	2.22
192	20.77005	0.309456	8.016529	191	1.86	-11.71	-2.96	2.23
193	20.81016	0.295129	8.016529	192	1.86	-11.71	-2.96	2.23
194	20.78342	0.323782	8.030303	193	1.87	-11.71	-2.95	2.24
195	20.81016	0.309456	8.057851	194	1.86	-11.71	-2.95	2.24
196	20.77005	0.295129	7.988981	195	1.86	-11.71	-2.95	2.24
197	20.78342	0.295129	7.988981	196	1.85	-11.74	-2.96	2.23
198	20.81016	0.309456	8.016529	197	1.85	-11.76	-2.96	2.24
199	20.77005	0.309456	8.016529	198	1.86	-11.76	-2.95	2.25
200	20.74332	0.266476	8.044077	199	1.86	-11.78	-2.95	2.25
201	20.71658	0.280802	8.099174	200	1.85	-11.8	-2.96	2.24
202	20.74332	0.280802	8.016529	201	1.86	-11.82	-2.96	2.25
203	20.75668	0.295129	8.030303	202	1.86	-11.83	-2.96	2.25
204	20.78342	0.323782	8.071625	203	1.86	-11.82	-2.96	2.25
205	20.75668	0.338109	8.071625	204	1.86	-11.78	-2.95	2.25
206	20.72995	0.295129	8.030303	205	1.86	-11.76	-2.95	2.25
207	20.74332	0.295129	8.030303	206	1.86	-11.75	-2.95	2.25
208	20.77005	0.295129	8.057851	207	1.86	-11.74	-2.94	2.26

209	20.82353	0.295129	8.016529	208	1.86	-11.75	-2.94	2.26
210	20.81016	0.280802	7.988981	209	1.87	-11.73	-2.94	2.26
211	20.79679	0.266476	7.961433	210	1.87	-11.71	-2.93	2.26

Deli_exp_11

Experiment type: Deliquescence experiment. This experiment was conducted with an empty petridish. The humidity buffer was LiCl which has a RH of 11.31 at 0 degrees Celsius. Chiller was set to -20°C. Temperature around the sample was controlled by the chiller.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= humidity buffer 3= atmosphere 4= sample

Mass		RH				T				
Min.	Mass	Min.	Ch02	Ch03	Ch04	Min.	Ch01	Ch02	Ch03	Ch04
1	1.93	0	15.04682	16.04392	20.78067	0	10.47	-6.86	-10.05	-11.45
3	2.23	1	14.97993	10.84122	20.89219	1	-1.35	-6.83	-10.01	-12.83
5	2.44	2	14.49498	2.209459	21.171	2	-1.25	-7.59	-10.19	-12.67
7	2.5	3	13.30769	2.030405	21.35688	3	-8.91	-8.98	-10.39	-12.52
9	2.56	4	11.83612	1.456081	21.20818	4	-8.07	-8.47	-10.29	-12.61
11	1.31	5	10.48161	0.976351	20.81784	5	-7.02	-7.72	-10.17	-12.19
13	1.48	6	9.294314	3.695946	20.27881	6	-5.22	-7.21	-10.03	-11.69
15	0.79	7	8.474916	6.398649	19.59108	7	-3.61	-6.74	-9.88	-11.22
17	0.95	8	8.173913	8.712838	18.88476	8	2.62	-5.92	-9.7	-10.61
19	1.05	9	8.441472	10.40203	18.36431	9	4.67	-5.33	-9.52	-10.29
21	1.14	10	9.010033	11.66892	18.0855	10	4.96	-4.92	-9.35	-10.1
23	1.2	11	9.595318	12.51351	17.91822	11	4.17	-4.61	-9.2	-9.96
25	1.27	12	10.06355	13.13851	17.84387	12	4.13	-4.34	-9.07	-9.79
27	1.31	13	10.41472	13.67905	17.82528	13	4.32	-4.19	-8.95	-9.64
29	1.36	14	10.51505	14.01689	17.88104	14	5.13	-4.21	-8.84	-9.6
31	1.41	15	10.51505	14.21959	17.91822	15	5.16	-4.02	-8.73	-9.6
33	1.44	16	10.54849	14.4223	17.97398	16	5.16	-3.84	-8.63	-9.63
35	1.48	17	10.54849	14.625	18.04833	17	5.22	-3.67	-8.53	-9.63
37	1.52	18	10.58194	14.86149	18.12268	18	5.25	-3.51	-8.45	-9.62
39	1.55	19	10.64883	15.03041	18.25279	19	5.25	-3.38	-8.38	-9.6
41	1.57	20	10.76589	15.16554	18.43866	20	5.34	-3.23	-8.3	-9.55
43	1.6	21	10.89967	15.28378	18.66171	21	5.37	-3.08	-8.23	-9.51
45	1.63	22	11.01672	15.4527	18.86617	22	5.45	-2.96	-8.16	-9.47
47	1.65	23	11.18395	15.63851	19.05204	23	5.42	-2.85	-8.1	-9.43

49	1.67	24	11.301	15.80743	19.25651	24	5.45	-2.73	-8.05	-9.39
51	1.7	25	11.35117	15.89189	19.4052	25	5.48	-2.63	-8.01	-9.36
53	1.71	26	11.41806	15.89189	19.51673	26	5.55	-2.53	-7.95	-9.32
55	1.74	27	11.50167	15.97635	19.68401	27	5.6	-2.44	-7.91	-9.28
57	1.76	28	11.56856	16.09459	19.8513	28	5.61	-2.35	-7.87	-9.24
59	1.78	29	11.56856	16.14527	19.92565	29	5.65	-2.26	-7.83	-9.21
61	1.8	30	11.63545	16.19595	19.94424	30	5.7	-2.19	-7.79	-9.18
63	1.82	31	11.71906	16.24662	20.09294	31	5.67	-2.12	-7.75	-9.15
65	1.84	32	11.76923	16.24662	20.1487	32	5.69	-2.07	-7.71	-9.12
67	1.86	33	11.75251	16.2973	20.20446	33	5.69	-2	-7.68	-9.1
69	1.88	34	11.71906	16.38176	20.31599	34	5.64	-1.94	-7.64	-9.08
71	1.89	35	11.73579	16.48311	20.2974	35	5.7	-1.88	-7.6	-9.04
73	1.9	36	11.75251	16.46622	20.35316	36	5.77	-1.81	-7.57	-9.01
75	1.02	37	11.73579	16.41554	20.46468	37	5.73	-1.76	-7.53	-8.98
77	1.12	38	11.78595	16.34797	20.48327	38	5.71	-1.71	-7.5	-8.96
79	1.15	39	11.76923	16.39865	20.48327	39	5.68	-1.68	-7.47	-8.93
81	1.18	40	11.71906	16.39865	20.48327	40	5.74	-1.62	-7.44	-8.9
83	1.19	41	11.73579	16.38176	20.46468	41	5.8	-1.58	-7.4	-8.88
85	1.2	42	11.80268	16.39865	20.48327	42	5.78	-1.54	-7.38	-8.85
87	1.21	43	11.78595	16.44932	20.46468	43	5.78	-1.49	-7.34	-8.82
89	1.21	44	11.75251	16.5	20.48327	44	5.72	-1.46	-7.33	-8.8
91	1.21	45	11.70234	16.48311	20.52045	45	5.66	-1.43	-7.3	-8.79
93	1.21	46	11.73579	16.41554	20.55762	46	5.85	-1.37	-7.27	-8.76
95	1.22	47	11.70234	16.41554	20.55762	47	5.88	-1.34	-7.24	-8.73
97	1.21	48	11.6689	16.41554	20.55762	48	5.8	-1.3	-7.23	-8.7
99	1.22	49	11.6689	16.34797	20.48327	49	5.8	-1.27	-7.2	-8.67
101	1.22	50	11.6689	16.31419	20.53903	50	5.82	-1.24	-7.18	-8.65
103	1.22	51	11.60201	16.33108	20.52045	51	5.84	-1.2	-7.14	-8.62
105	1.21	52	11.56856	16.36486	20.52045	52	5.85	-1.17	-7.12	-8.59
107	1.21	53	11.56856	16.31419	20.57621	53	5.81	-1.14	-7.09	-8.57
109	1.2	54	11.55184	16.34797	20.5948	54	5.9	-1.11	-7.06	-8.54
111	1.19	55	11.55184	16.2973	20.57621	55	5.91	-1.09	-7.04	-8.52
113	1.19	56	11.50167	16.28041	20.55762	56	5.84	-1.05	-7.02	-8.5
115	1.18	57	11.41806	16.28041	20.50186	57	5.85	-1.03	-6.99	-8.47
117	1.17	58	11.45151	16.2973	20.48327	58	5.61	-1.02	-6.97	-8.45
119	1.17	59	11.48495	16.2973	20.46468	59	5.48	-1.01	-6.94	-8.44
121	1.17	60	11.46823	16.2973	20.4461	60	5.78	-0.96	-6.92	-8.42
123	1.16	61	11.40134	16.22973	20.50186	61	5.81	-0.93	-6.9	-8.4
125	1.16	62	11.41806	16.22973	20.46468	62	5.8	-0.91	-6.88	-8.37
127	1.17	63	11.45151	16.21284	20.52045	63	5.78	-0.89	-6.86	-8.36
129	1.16	64	11.41806	16.14527	20.52045	64	5.76	-0.86	-6.83	-8.33
131	1.15	65	11.40134	16.11149	20.46468	65	5.74	-0.86	-6.82	-8.31
133	1.15	66	11.40134	16.14527	20.4461	66	5.87	-0.82	-6.79	-8.29
135	1.15	67	11.33445	16.12838	20.50186	67	5.9	-0.8	-6.78	-8.27
137	1.15	68	11.301	16.14527	20.57621	68	5.93	-0.75	-6.75	-8.23

139	1.15	69	11.31773	16.16216	20.57621	69	5.87	-0.75	-6.73	-8.2
141	1.15	70	11.31773	16.11149	20.5948	70	5.92	-0.72	-6.71	-8.18
143	1.15	71	11.36789	16.11149	20.55762	71	6.01	-0.7	-6.68	-8.16
145	1.15	72	11.43478	16.01014	20.50186	72	6	-0.67	-6.66	-8.13
147	1.15	73	11.45151	16.01014	20.42751	73	5.89	-0.65	-6.64	-8.11
149	1.15	74	11.48495	16.06081	20.42751	74	5.9	-0.64	-6.62	-8.1
151	1.15	75	11.43478	16.06081	20.48327	75	5.97	-0.61	-6.6	-8.07
153	1.15	76	11.46823	16.04392	20.48327	76	5.95	-0.59	-6.58	-8.05
155	1.15	77	11.43478	16.04392	20.4461	77	5.87	-0.59	-6.56	-8.03
157	1.15	78	11.43478	16.04392	20.48327	78	5.93	-0.57	-6.55	-8.02
159	1.16	79	11.41806	15.95946	20.46468	79	6.02	-0.55	-6.53	-8
161	1.16	80	11.38462	15.99324	20.46468	80	5.9	-0.52	-6.5	-7.97
163	1.16	81	11.41806	15.99324	20.40892	81	6.07	-0.5	-6.47	-7.94
165	1.17	82	11.43478	16.0777	20.46468	82	6.13	-0.49	-6.46	-7.92
167	1.17	83	11.41806	16.02703	20.4461	83	6.13	-0.48	-6.44	-7.9
169	1.17	84	11.38462	15.99324	20.42751	84	6.14	-0.45	-6.42	-7.87
171	1.18	85	11.33445	15.92568	20.42751	85	6.14	-0.44	-6.39	-7.85
173	1.18	86	11.35117	15.875	20.48327	86	5.97	-0.44	-6.38	-7.84
175	1.18	87	11.38462	15.90878	20.46468	87	6.06	-0.42	-6.36	-7.83
177	1.19	88	11.35117	15.99324	20.48327	88	6.1	-0.4	-6.35	-7.81
179	1.19	89	11.33445	16.04392	20.4461	89	6.15	-0.37	-6.33	-7.79
181	1.19	90	11.35117	16.01014	20.39033	90	6.07	-0.37	-6.31	-7.77
183	1.2	91	11.35117	15.92568	20.42751	91	6.18	-0.36	-6.29	-7.75
185	1.21	92	11.38462	15.89189	20.48327	92	6.11	-0.33	-6.27	-7.73
187	1.21	93	11.38462	15.95946	20.53903	93	6.11	-0.32	-6.26	-7.71
189	1.22	94	11.38462	15.92568	20.52045	94	6.15	-0.31	-6.24	-7.69
191	1.22	95	11.38462	15.97635	20.53903	95	6.19	-0.3	-6.22	-7.67
193	1.22	96	11.35117	15.99324	20.4461	96	6.12	-0.29	-6.2	-7.64
195	1.23	97	11.26756	15.99324	20.42751	97	6.16	-0.27	-6.19	-7.63
197	1.24	98	11.26756	15.95946	20.35316	98	6.16	-0.25	-6.17	-7.62
199	1.24	99	11.28428	15.92568	20.40892	99	6.21	-0.23	-6.15	-7.59
201	1.24	100	11.35117	15.875	20.37175	100	6.25	-0.22	-6.13	-7.57
203	1.25	101	11.301	15.85811	20.33457	101	6.15	-0.21	-6.12	-7.55
205	1.25	102	11.28428	15.90878	20.4461	102	6.21	-0.2	-6.1	-7.54
207	1.25	103	11.26756	15.90878	20.46468	103	6.26	-0.19	-6.07	-7.52
209	1.26	104	11.301	15.84122	20.46468	104	6.35	-0.17	-6.04	-7.49
211	1.27	105	11.25084	15.85811	20.4461	105	6.31	-0.16	-6.02	-7.47
213	1.26	106	11.23411	15.80743	20.46468	106	6.32	-0.15	-6.01	-7.45
215	1.27	107	11.23411	15.84122	20.4461	107	6.36	-0.13	-5.98	-7.43
217	1.28	108	11.26756	15.90878	20.40892	108	6.4	-0.11	-5.96	-7.41
219	1.28	109	11.28428	15.875	20.42751	109	6.39	-0.11	-5.94	-7.39
221	1.29	110	11.26756	15.90878	20.39033	110	6.38	-0.09	-5.92	-7.36
223	1.29	111	11.26756	15.90878	20.40892	111	6.42	-0.07	-5.9	-7.35
225	1.3	112	11.20067	15.89189	20.39033	112	6.37	-0.06	-5.89	-7.32
227	1.3	113	11.20067	15.84122	20.39033	113	6.34	-0.05	-5.87	-7.31

229	1.3	114	11.20067	15.84122	20.39033	114	6.39	-0.05	-5.86	-7.3
231	1.31	115	11.1505	15.82432	20.42751	115	6.3	-0.03	-5.84	-7.28
233	1.31	116	11.1505	15.82432	20.4461	116	6.34	-0.03	-5.83	-7.27
235	1.32	117	11.13378	15.79054	20.37175	117	6.32	-0.02	-5.82	-7.26
237	1.32	118	11.16722	15.80743	20.2974	118	6.34	-0.01	-5.81	-7.25
239	1.32	119	11.1505	15.84122	20.37175	119	6.35	0	-5.79	-7.23
241	1.33	120	11.16722	15.84122	20.48327	120	6.33	0.01	-5.78	-7.21
243	1.33	121	11.16722	15.875	20.40892	121	6.31	0.01	-5.76	-7.19
245	1.33	122	11.16722	15.84122	20.33457	122	6.35	0.02	-5.75	-7.17
247	1.34	123	11.1505	15.75676	20.35316	123	6.33	0.04	-5.73	-7.16
249	1.34	124	11.1505	15.75676	20.40892	124	6.35	0.04	-5.72	-7.15
251	1.35	125	11.13378	15.84122	20.40892	125	6.43	0.06	-5.71	-7.13
253	1.35	126	11.13378	15.89189	20.42751	126	6.39	0.06	-5.7	-7.11
255	1.35	127	11.16722	15.875	20.42751	127	6.42	0.06	-5.69	-7.1
257	1.36	128	11.16722	15.84122	20.4461	128	6.43	0.08	-5.67	-7.08
259	1.36	129	11.11706	15.82432	20.37175	129	6.39	0.08	-5.66	-7.07
261	1.36	130	11.10033	15.77365	20.39033	130	6.39	0.09	-5.65	-7.06
263	1.37	131	11.16722	15.80743	20.39033	131	6.44	0.09	-5.64	-7.04
265	1.37	132	11.20067	15.82432	20.39033	132	6.42	0.1	-5.63	-7.04
267	1.37	133	11.1505	15.80743	20.40892	133	6.4	0.12	-5.62	-7.02
269	1.38	134	11.11706	15.79054	20.37175	134	6.42	0.13	-5.6	-7
271	1.38	135	11.08361	15.70608	20.37175	135	6.39	0.15	-5.58	-6.98
273	1.38	136	11.06689	15.73986	20.37175	136	6.34	0.15	-5.57	-6.97
275	1.39	137	11.06689	15.80743	20.40892	137	6.41	0.16	-5.55	-6.95
277	1.39	138	11.05017	15.84122	20.46468	138	6.43	0.16	-5.55	-6.95
279	1.39	139	11.08361	15.82432	20.48327	139	6.38	0.19	-5.52	-6.91
281	1.4	140	11.08361	15.77365	20.42751	140	6.44	0.19	-5.51	-6.9
283	1.4	141	11.06689	15.73986	20.37175	141	6.46	0.2	-5.5	-6.88
285	1.4	142	11.10033	15.77365	20.40892	142	6.41	0.21	-5.49	-6.87
287	1.4	143	11.10033	15.77365	20.37175	143	6.43	0.21	-5.48	-6.86
289	1.41	144	11.11706	15.77365	20.40892	144	6.51	0.23	-5.47	-6.85
291	1.4	145	11.13378	15.70608	20.48327	145	6.45	0.23	-5.45	-6.83
293	1.41	146	11.1505	15.79054	20.50186	146	6.45	0.24	-5.45	-6.82
295	1.42	147	11.10033	15.77365	20.4461	147	6.56	0.27	-5.43	-6.8
297	1.42	148	11.13378	15.77365	20.37175	148	6.47	0.26	-5.41	-6.78
299	1.42	149	11.08361	15.79054	20.42751	149	6.53	0.27	-5.41	-6.77
301	1.43	150	11.10033	15.77365	20.46468	150	6.49	0.27	-5.4	-6.76
303	1.43	151	11.11706	15.72297	20.39033	151	6.53	0.28	-5.39	-6.74
305	1.43	152	11.06689	15.79054	20.35316	152	6.55	0.29	-5.38	-6.73
307	1.43	153	11.10033	15.82432	20.4461	153	6.56	0.3	-5.36	-6.72
309	1.43	154	11.11706	15.84122	20.46468	154	6.57	0.3	-5.36	-6.72
311	1.43	155	11.08361	15.80743	20.40892	155	6.55	0.3	-5.35	-6.71
313	1.44	156	11.10033	15.80743	20.39033	156	6.56	0.32	-5.33	-6.69
315	1.44	157	11.10033	15.80743	20.4461	157	6.53	0.32	-5.33	-6.68
317	1.44	158	11.11706	15.75676	20.4461	158	6.55	0.34	-5.31	-6.67

319	1.45	159	11.13378	15.80743	20.4461	159	6.55	0.34	-5.3	-6.65
321	1.45	160	11.16722	15.82432	20.50186	160	6.55	0.35	-5.29	-6.64
323	1.45	161	11.1505	15.79054	20.4461	161	6.61	0.37	-5.27	-6.62
325	1.46	162	11.11706	15.79054	20.50186	162	6.6	0.37	-5.26	-6.61
327	1.46	163	11.13378	15.73986	20.48327	163	6.64	0.39	-5.25	-6.59
329	1.46	164	11.13378	15.70608	20.48327	164	6.6	0.4	-5.23	-6.58
331	1.46	165	11.11706	15.73986	20.42751	165	6.61	0.41	-5.22	-6.57
333	1.47	166	11.13378	15.80743	20.40892	166	6.63	0.42	-5.21	-6.56
335	1.47	167	11.11706	15.82432	20.48327	167	6.6	0.42	-5.2	-6.55
337	1.47	168	11.08361	15.82432	20.48327	168	6.58	0.42	-5.19	-6.54
339	1.48	169	11.1505	15.79054	20.50186	169	6.63	0.43	-5.19	-6.54
341	1.48	170	11.1505	15.82432	20.5948	170	6.68	0.44	-5.17	-6.52
343	1.48	171	11.13378	15.75676	20.53903	171	6.6	0.44	-5.17	-6.51
345	1.48	172	11.16722	15.79054	20.48327	172	6.6	0.45	-5.16	-6.5
347	1.49	173	11.16722	15.79054	20.50186	173	6.64	0.46	-5.15	-6.49
349	1.49	174	11.20067	15.84122	20.53903	174	6.66	0.46	-5.15	-6.48
351	1.49	175	11.18395	15.85811	20.5948	175	6.68	0.47	-5.13	-6.47
353	1.49	176	11.1505	15.82432	20.57621	176	6.68	0.48	-5.12	-6.45
355	1.49	177	11.13378	15.85811	20.55762	177	6.64	0.49	-5.11	-6.45
357	1.5	178	11.18395	15.82432	20.57621	178	6.69	0.49	-5.1	-6.44
359	1.5	179	11.21739	15.85811	20.5948	179	6.73	0.51	-5.09	-6.41
361	1.5	180	11.21739	15.82432	20.61338	180	6.67	0.51	-5.08	-6.41
363	1.5	181	11.23411	15.85811	20.52045	181	6.68	0.52	-5.08	-6.41
365	1.5	182	11.25084	15.84122	20.57621	182	6.72	0.53	-5.07	-6.39
367	1.51	183	11.23411	15.84122	20.5948	183	6.69	0.53	-5.06	-6.38
369	1.51	184	11.20067	15.84122	20.57621	184	6.74	0.55	-5.05	-6.37
371	1.51	185	11.26756	15.89189	20.5948	185	6.7	0.56	-5.03	-6.36
373	1.51	186	11.28428	15.85811	20.61338	186	6.7	0.57	-5.02	-6.35
375	1.52	187	11.26756	15.79054	20.5948	187	6.73	0.57	-5.01	-6.34
377	1.52	188	11.28428	15.80743	20.57621	188	6.72	0.58	-5	-6.33
379	1.52	189	11.26756	15.80743	20.61338	189	6.74	0.59	-4.99	-6.32
381	1.52	190	11.28428	15.85811	20.65056	190	6.71	0.59	-4.99	-6.31
383	1.52	191	11.28428	15.80743	20.65056	191	6.72	0.6	-4.98	-6.29
385	1.52	192	11.301	15.92568	20.5948	192	6.76	0.61	-4.97	-6.28
387	1.53	193	11.33445	15.90878	20.61338	193	6.76	0.62	-4.96	-6.27
389	1.53	194	11.36789	15.875	20.65056	194	6.8	0.63	-4.95	-6.26
391	1.53	195	11.36789	15.84122	20.66914	195	6.73	0.64	-4.94	-6.26
393	1.53	196	11.36789	15.875	20.68773	196	6.76	0.63	-4.94	-6.26
395	1.54	197	11.40134	15.85811	20.70632	197	6.69	0.64	-4.93	-6.25
397	1.53	198	11.38462	15.875	20.66914	198	6.7	0.65	-4.92	-6.24
399	1.54	199	11.36789	15.92568	20.66914	199	6.75	0.66	-4.91	-6.22
401	1.54	200	11.40134	15.92568	20.70632	200	6.77	0.66	-4.91	-6.22
403	1.54	201	11.46823	15.90878	20.74349	201	6.82	0.67	-4.89	-6.21
405	1.54	202	11.50167	15.95946	20.76208	202	6.78	0.66	-4.89	-6.2
407	1.55	203	11.46823	15.97635	20.79926	203	6.78	0.67	-4.88	-6.19

409	1.55	204	11.46823	15.92568	20.81784	204	6.75	0.68	-4.87	-6.19
411	1.55	205	11.48495	15.90878	20.74349	205	6.77	0.69	-4.86	-6.17
413	1.55	206	11.53512	15.89189	20.76208	206	6.79	0.7	-4.85	-6.16
415	1.56	207	11.51839	15.97635	20.78067	207	6.8	0.7	-4.85	-6.16
417	1.56	208	11.50167	15.95946	20.81784	208	6.8	0.72	-4.83	-6.14
419	1.56	209	11.53512	16.04392	20.85502	209	6.8	0.72	-4.83	-6.13
421	1.56	210	11.58528	15.95946	20.83643	210	6.83	0.73	-4.82	-6.13
423	1.56	211	11.63545	15.90878	20.85502	211	6.82	0.74	-4.81	-6.12
425	1.56	212	11.61873	15.94257	20.87361	212	6.86	0.74	-4.81	-6.11
427	1.57	213	11.6689	15.97635	20.85502	213	6.81	0.74	-4.8	-6.1
429	1.56	214	11.71906	15.97635	20.85502	214	6.83	0.75	-4.8	-6.1
431	1.57	215	11.76923	16.06081	20.89219	215	6.82	0.76	-4.78	-6.08
433	1.57	216	11.80268	16.04392	20.89219	216	6.8	0.76	-4.78	-6.08
435	1.57	217	11.88629	16.02703	20.91078	217	6.81	0.77	-4.77	-6.07
437	1.58	218	11.95318	16.11149	20.91078	218	6.85	0.77	-4.76	-6.06
439	1.58	219	11.98662	16.16216	20.92937	219	6.86	0.78	-4.75	-6.04
441	1.58	220	12.03679	16.12838	20.89219	220	6.86	0.79	-4.73	-6.03
443	1.58	221	11.98662	16.14527	20.87361	221	6.78	0.8	-4.73	-6.02
445	1.58	222	11.98662	16.12838	20.92937	222	6.87	0.81	-4.72	-6.02
447	1.58	223	12.03679	16.16216	20.98513	223	6.88	0.82	-4.71	-6.01
449	1.59	224	12.02007	16.11149	21.00372	224	6.81	0.82	-4.7	-6
451	1.59	225	12.07023	16.06081	21.0223	225	6.86	0.83	-4.7	-5.99
453	1.59	226	12.10368	16.06081	20.96654	226	6.89	0.83	-4.69	-5.98
455	1.59	227	12.10368	16.0777	20.98513	227	6.91	0.85	-4.69	-5.98
457	1.59	228	12.10368	16.06081	20.98513	228	6.95	0.86	-4.68	-5.98
459	1.59	229	12.15385	16.06081	20.98513	229	6.91	0.86	-4.67	-5.96
461	1.59	230	12.13712	16.0777	21.00372	230	6.97	0.87	-4.66	-5.95
463	1.6	231	12.13712	16.12838	21.05948	231	6.94	0.87	-4.65	-5.95
465	1.6	232	12.1204	16.21284	21.07807	232	6.93	0.87	-4.65	-5.94
467	1.6	233	12.13712	16.17905	21.04089	233	6.9	0.88	-4.65	-5.93
469	1.6	234	12.17057	16.16216	21.04089	234	6.93	0.89	-4.64	-5.92
471	1.6	235	12.18729	16.19595	21.04089	235	6.96	0.91	-4.62	-5.91
473	1.6	236	12.17057	16.17905	21.0223	236	6.98	0.91	-4.61	-5.9
475	1.6	237	12.1204	16.12838	20.98513	237	6.95	0.92	-4.61	-5.89
477	1.61	238	12.10368	16.12838	20.96654	238	6.92	0.92	-4.6	-5.88
479	1.61	239	12.10368	16.19595	21.0223	239	6.96	0.94	-4.59	-5.88
481	1.61	240	12.10368	16.19595	21.05948	240	7	0.93	-4.6	-5.88
483	1.61	241	12.1204	16.16216	21.05948	241	6.96	0.95	-4.59	-5.87
485	1.61	242	12.15385	16.09459	21.05948	242	6.97	0.95	-4.58	-5.87
487	1.61	243	12.10368	16.04392	21.05948	243	6.9	0.94	-4.58	-5.85
489	1.62	244	12.05351	16.0777	21.09665	244	6.87	0.95	-4.56	-5.84
491	1.61	245	12.10368	16.0777	21.04089	245	6.92	0.95	-4.56	-5.84
493	1.62	246	12.07023	16.11149	21.00372	246	6.92	0.96	-4.55	-5.83
495	1.62	247	12.1204	16.06081	21.00372	247	6.95	0.97	-4.54	-5.82
497	1.62	248	12.08696	16.0777	21.00372	248	6.91	0.98	-4.54	-5.82

499	1.62	249	12.05351	16.16216	21.0223	249	6.91	0.98	-4.52	-5.8
501	1.62	250	12.05351	16.21284	21.04089	250	6.93	0.99	-4.51	-5.79
503	1.62	251	12.05351	16.19595	21.0223	251	6.94	0.99	-4.51	-5.79
505	1.62	252	12.1204	16.16216	21.04089	252	6.98	1.01	-4.5	-5.77
507	1.63	253	12.07023	16.12838	21.07807	253	6.99	1.02	-4.49	-5.76
509	1.63	254	12.00334	16.19595	21.0223	254	7.04	1.03	-4.49	-5.76
511	1.63	255	12.02007	16.16216	21.00372	255	7.03	1.03	-4.49	-5.76
513	1.63	256	12.08696	16.12838	21.05948	256	7	1.03	-4.48	-5.76
515	1.63	257	12.07023	16.14527	21.05948	257	7.02	1.03	-4.47	-5.75
517	1.63	258	12.03679	16.09459	21.05948	258	7.01	1.04	-4.47	-5.74
519	1.64	259	12.03679	16.12838	21.05948	259	7.02	1.06	-4.46	-5.72
521	1.64	260	12.03679	16.16216	21.07807	260	7.04	1.05	-4.45	-5.72
523	1.64	261	12.05351	16.14527	21.0223	261	7.03	1.06	-4.45	-5.71
525	1.64	262	12.05351	16.21284	20.98513	262	6.99	1.07	-4.44	-5.7
527	1.64	263	12.07023	16.17905	21.00372	263	7.01	1.07	-4.43	-5.69
529	1.64	264	12.1204	16.17905	21.05948	264	7.06	1.08	-4.43	-5.69
531	1.64	265	12.13712	16.09459	21.05948	265	7.05	1.08	-4.42	-5.68
533	1.65	266	12.07023	16.11149	21.11524	266	7.05	1.07	-4.42	-5.68
535	1.64	267	12.08696	16.09459	21.13383	267	7.04	1.08	-4.41	-5.66
537	1.65	268	12.07023	16.16216	21.11524	268	7.07	1.1	-4.4	-5.66
539	1.65	269	12.05351	16.14527	21.07807	269	7.07	1.1	-4.4	-5.66
541	1.65	270	12.08696	16.16216	21.15242	270	7.09	1.12	-4.39	-5.65
543	1.64	271	12.13712	16.16216	21.07807	271	7.1	1.13	-4.39	-5.64
545	1.65	272	12.10368	16.12838	21.07807	272	7.07	1.12	-4.38	-5.64
547	1.65	273	12.05351	16.16216	21.11524	273	7.04	1.12	-4.37	-5.62
549	1.65	274	12.03679	16.19595	21.15242	274	7.05	1.12	-4.37	-5.62
551	1.65	275	12.05351	16.17905	21.13383	275	7.06	1.14	-4.37	-5.62
553	1.65	276	12.03679	16.14527	21.13383	276	7.06	1.15	-4.36	-5.59
555	1.65	277	12.08696	16.0777	21.11524	277	7.08	1.17	-4.35	-5.59
557	1.66	278	12.08696	16.0777	21.07807	278	7.03	1.15	-4.35	-5.6
559	1.66	279	12.1204	16.0777	21.09665	279	7.09	1.15	-4.35	-5.59
561	1.65	280	12.10368	16.0777	21.11524	280	7.07	1.16	-4.34	-5.58
563	1.66	281	12.03679	16.16216	21.09665	281	7.08	1.17	-4.34	-5.57
565	1.66	282	12.02007	16.17905	21.07807	282	7.08	1.17	-4.33	-5.56
567	1.66	283	12.05351	16.12838	21.09665	283	7.17	1.2	-4.32	-5.55
569	1.66	284	11.98662	16.11149	21.13383	284	7.16	1.2	-4.32	-5.55
571	1.67	285	11.9699	16.14527	21.11524	285	7.17	1.2	-4.32	-5.54
573	1.67	286	11.98662	16.12838	21.13383	286	7.07	1.18	-4.31	-5.54
575	1.66	287	12.00334	16.14527	21.13383	287	7.03	1.19	-4.31	-5.52
577	1.67	288	12.03679	16.12838	21.13383	288	7.16	1.2	-4.3	-5.52
579	1.67	289	12.02007	16.11149	21.15242	289	7.17	1.22	-4.3	-5.52
581	1.66	290	11.98662	16.14527	21.09665	290	7.12	1.22	-4.29	-5.51
583	1.67	291	11.98662	16.16216	21.09665	291	7.12	1.22	-4.28	-5.5
585	1.67	292	12.00334	16.0777	21.05948	292	7.16	1.23	-4.28	-5.5
587	1.67	293	12.00334	16.06081	21.09665	293	7.16	1.24	-4.27	-5.48

589	1.68	294	11.95318	16.0777	21.0223	294	7.07	1.21	-4.27	-5.47
591	1.68	295	11.95318	16.09459	21.04089	295	7.1	1.22	-4.27	-5.46
593	1.67	296	11.95318	16.0777	21.07807	296	7.07	1.22	-4.27	-5.46
595	1.67	297	11.86957	16.06081	21.00372	297	7.1	1.23	-4.25	-5.45
597	1.67	298	11.86957	16.0777	21.04089	298	7.09	1.25	-4.25	-5.44
599	1.66	299	11.90301	16.0777	21.00372	299	7.08	1.26	-4.25	-5.45
601	1.67	300	11.93645	16.12838	21.0223	300	7.13	1.26	-4.24	-5.45
603	1.66	301	11.95318	16.16216	21.0223	301	7.12	1.26	-4.24	-5.44
605	1.66	302	11.93645	16.14527	21.05948	302	7.15	1.28	-4.24	-5.42
607	1.66	303	11.91973	16.14527	21.05948	303	7.13	1.27	-4.24	-5.43
609	1.67	304	11.90301	16.14527	21.09665	304	7.12	1.28	-4.24	-5.42
611	1.66	305	11.93645	16.12838	21.05948	305	7.13	1.28	-4.23	-5.42
613	1.66	306	11.91973	16.11149	21.09665	306	7.14	1.28	-4.23	-5.41
615	1.66	307	11.90301	16.17905	21.05948	307	7.17	1.3	-4.22	-5.4
617	1.65	308	11.91973	16.19595	21.04089	308	7.17	1.29	-4.22	-5.4
619	1.65	309	11.88629	16.11149	21.07807	309	7.22	1.31	-4.21	-5.39
621	1.66	310	11.88629	16.14527	21.07807	310	7.21	1.3	-4.21	-5.39
623	1.65	311	11.91973	16.16216	21.05948	311	7.17	1.3	-4.21	-5.38
625	1.65	312	11.91973	16.09459	21.0223	312	7.19	1.31	-4.2	-5.37
627	1.66	313	11.95318	16.0777	21.00372	313	7.18	1.33	-4.19	-5.36
629	1.67	314	11.91973	16.14527	21.04089	314	7.21	1.32	-4.19	-5.35
631	1.67	315	11.9699	16.16216	21.13383	315	7.23	1.33	-4.19	-5.36
633	1.68	316	11.91973	16.16216	21.07807	316	7.22	1.35	-4.18	-5.34
635	1.69	317	11.91973	16.17905	21.05948	317	7.23	1.36	-4.18	-5.33
637	1.69	318	11.93645	16.12838	21.11524	318	7.28	1.36	-4.17	-5.33
639	1.69	319	11.95318	16.16216	21.11524	319	7.26	1.37	-4.17	-5.32
641	1.7	320	11.91973	16.17905	21.13383	320	7.13	1.36	-4.17	-5.32
643	1.69	321	11.95318	16.17905	21.07807	321	7.19	1.35	-4.16	-5.32
645	1.7	322	11.91973	16.19595	21.07807	322	7.22	1.37	-4.16	-5.3
647	1.7	323	11.95318	16.21284	21.15242	323	7.26	1.38	-4.16	-5.29
649	1.7	324	11.98662	16.26351	21.11524	324	7.23	1.37	-4.15	-5.29
651	1.7	325	11.93645	16.24662	21.07807	325	7.25	1.37	-4.15	-5.3
653	1.7	326	11.90301	16.17905	21.13383	326	7.27	1.39	-4.14	-5.28
655	1.7	327	11.91973	16.17905	21.15242	327	7.22	1.38	-4.14	-5.28
657	1.7	328	11.93645	16.16216	21.18959	328	7.26	1.39	-4.14	-5.27
659	1.71	329	11.95318	16.14527	21.22677	329	7.21	1.38	-4.14	-5.27
661	1.71	330	11.9699	16.21284	21.15242	330	7.23	1.38	-4.13	-5.27
663	1.7	331	11.95318	16.19595	21.13383	331	7.19	1.37	-4.13	-5.25
665	1.71	332	11.95318	16.12838	21.09665	332	7.16	1.36	-4.13	-5.25
667	1.71	333	11.93645	16.04392	21.09665	333	7.2	1.38	-4.12	-5.24
669	1.7	334	11.95318	16.04392	21.11524	334	7.23	1.41	-4.11	-5.24
671	1.71	335	11.91973	16.0777	21.11524	335	7.27	1.43	-4.11	-5.24
673	1.71	336	11.88629	16.06081	21.09665	336	7.28	1.42	-4.1	-5.23
675	1.71	337	11.93645	16.0777	21.15242	337	7.22	1.41	-4.1	-5.23
677	1.71	338	11.95318	16.06081	21.09665	338	7.27	1.42	-4.09	-5.21

679	1.71	339	11.95318	16.11149	21.09665	339	7.24	1.42	-4.08	-5.2
681	1.71	340	11.95318	16.09459	21.11524	340	7.28	1.45	-4.07	-5.19
683	1.71	341	11.93645	16.12838	21.07807	341	7.27	1.45	-4.06	-5.18
685	1.71	342	11.90301	16.12838	21.07807	342	7.26	1.45	-4.06	-5.18
687	1.71	343	11.93645	16.16216	21.13383	343	7.27	1.44	-4.06	-5.16
689	1.71	344	11.95318	16.14527	21.171	344	7.19	1.44	-4.06	-5.16
691	1.72	345	11.98662	16.0777	21.171	345	7.25	1.46	-4.05	-5.17
693	1.71	346	11.9699	16.11149	21.171	346	7.31	1.48	-4.05	-5.17
695	1.71	347	11.95318	16.11149	21.13383	347	7.29	1.45	-4.05	-5.16
697	1.72	348	11.93645	16.14527	21.13383	348	7.27	1.47	-4.03	-5.14
699	1.72	349	11.86957	16.21284	21.15242	349	7.25	1.47	-4.03	-5.13
701	1.71	350	11.88629	16.19595	21.15242	350	7.26	1.47	-4.04	-5.14
703	1.72	351	11.93645	16.16216	21.15242	351	7.24	1.48	-4.03	-5.13
705	1.72	352	11.95318	16.11149	21.15242	352	7.25	1.49	-4.03	-5.12
707	1.71	353	11.91973	16.17905	21.171	353	7.27	1.49	-4.03	-5.12
709	1.72	354	11.93645	16.19595	21.15242	354	7.29	1.5	-4.02	-5.11
711	1.72	355	11.93645	16.16216	21.20818	355	7.29	1.5	-4.02	-5.11
713	1.72	356	11.95318	16.16216	21.18959	356	7.27	1.49	-4.02	-5.1
715	1.72	357	11.91973	16.16216	21.20818	357	7.26	1.49	-4.01	-5.09
717	1.72	358	11.90301	16.12838	21.22677	358	7.3	1.5	-4.01	-5.09
719	1.72	359	11.91973	16.14527	21.15242	359	7.29	1.52	-4	-5.08
721	1.72	360	11.86957	16.12838	21.13383	360	7.27	1.53	-4	-5.07
723	1.73	361	11.88629	16.09459	21.15242	361	7.28	1.52	-3.99	-5.07
725	1.72	362	11.90301	16.14527	21.171	362	7.31	1.52	-3.99	-5.07
727	1.72	363	11.85284	16.16216	21.171	363	7.34	1.53	-3.99	-5.04
729	1.73	364	11.88629	16.12838	21.13383	364	7.34	1.54	-3.99	-5.04
731	1.73	365	11.91973	16.14527	21.13383	365	7.3	1.54	-3.99	-5.06
733	1.72	366	11.91973	16.12838	21.15242	366	7.28	1.55	-3.99	-5.04
735	1.73	367	11.9699	16.14527	21.13383	367	7.32	1.56	-3.98	-5.06
737	1.73	368	11.93645	16.16216	21.11524	368	7.3	1.53	-3.98	-5.05
739	1.73	369	11.86957	16.11149	21.171	369	7.3	1.52	-3.99	-5.06
741	1.73	370	11.80268	16.12838	21.171	370	7.3	1.56	-3.97	-5.04
743	1.73	371	11.88629	16.11149	21.15242	371	7.28	1.56	-3.97	-5.03
745	1.73	372	11.91973	16.12838	21.11524	372	7.31	1.56	-3.97	-5.03
747	1.73	373	11.93645	16.14527	21.15242	373	7.32	1.56	-3.97	-5.02
749	1.73	374	11.93645	16.21284	21.22677	374	7.29	1.55	-3.96	-5.02
751	1.73	375	11.95318	16.14527	21.171	375	7.38	1.57	-3.96	-5.01
753	1.73	376	11.90301	16.09459	21.18959	376	7.37	1.58	-3.95	-5
755	1.74	377	11.88629	16.14527	21.18959	377	7.36	1.57	-3.95	-4.99
757	1.73	378	11.95318	16.17905	21.171	378	7.37	1.6	-3.95	-5
759	1.74	379	11.95318	16.11149	21.20818	379	7.37	1.6	-3.95	-4.98
761	1.74	380	11.98662	16.09459	21.20818	380	7.35	1.57	-3.95	-4.99
763	1.74	381	11.93645	16.11149	21.15242	381	7.31	1.59	-3.95	-4.98
765	1.74	382	11.93645	16.14527	21.20818	382	7.4	1.6	-3.94	-4.97
767	1.74	383	11.91973	16.14527	21.13383	383	7.36	1.59	-3.94	-4.97

769	1.74	384	11.90301	16.14527	21.18959	384	7.35	1.6	-3.93	-4.97
771	1.74	385	11.88629	16.14527	21.20818	385	7.39	1.62	-3.93	-4.95
773	1.75	386	11.88629	16.16216	21.18959	386	7.39	1.62	-3.93	-4.94
775	1.74	387	11.88629	16.12838	21.22677	387	7.38	1.62	-3.92	-4.94
777	1.75	388	11.88629	16.12838	21.24535	388	7.39	1.61	-3.92	-4.94
779	1.75	389	11.85284	16.12838	21.18959	389	7.39	1.62	-3.93	-4.94
781	1.75	390	11.88629	16.17905	21.171	390	7.37	1.66	-3.92	-4.89
783	1.75	391	11.86957	16.16216	21.20818	391	7.38	1.64	-3.92	-4.92
785	1.75	392	11.91973	16.14527	21.15242	392	7.38	1.64	-3.92	-4.91
787	1.75	393	11.91973	16.11149	21.22677	393	7.39	1.64	-3.91	-4.93
789	1.75	394	11.91973	16.09459	21.18959	394	7.39	1.62	-3.91	-4.93
791	1.76	395	11.86957	16.16216	21.171	395	7.37	1.64	-3.9	-4.91
793	1.75	396	11.90301	16.12838	21.171	396	7.39	1.64	-3.9	-4.91
795	1.75	397	11.86957	16.12838	21.15242	397	7.41	1.65	-3.9	-4.89
797	1.76	398	11.86957	16.11149	21.15242	398	7.38	1.64	-3.9	-4.89
799	1.76	399	11.85284	16.16216	21.171	399	7.4	1.64	-3.89	-4.89
801	1.75	400	11.90301	16.12838	21.20818	400	7.4	1.63	-3.89	-4.88
803	1.76	401	11.91973	16.16216	21.20818	401	7.46	1.66	-3.88	-4.88
805	1.76	402	11.90301	16.12838	21.20818	402	7.45	1.67	-3.88	-4.87
807	1.76	403	11.90301	16.09459	21.18959	403	7.36	1.67	-3.88	-4.88
809	1.76	404	11.91973	16.14527	21.18959	404	7.39	1.66	-3.87	-4.86
811	1.76	405	11.90301	16.14527	21.18959	405	7.4	1.66	-3.87	-4.87
813	1.76	406	11.90301	16.17905	21.171	406	7.39	1.66	-3.87	-4.87
815	1.76	407	11.88629	16.16216	21.20818	407	7.42	1.67	-3.87	-4.85
817	1.77	408	11.88629	16.14527	21.18959	408	7.44	1.68	-3.87	-4.84
819	1.76	409	11.85284	16.14527	21.13383	409	7.38	1.67	-3.86	-4.83
821	1.76	410	11.86957	16.0777	21.13383	410	7.34	1.64	-3.87	-4.83
823	1.77	411	11.85284	16.11149	21.11524	411	7.38	1.65	-3.86	-4.84
825	1.76	412	11.88629	16.06081	21.13383	412	7.4	1.67	-3.86	-4.83
827	1.77	413	11.86957	16.0777	21.18959	413	7.38	1.66	-3.86	-4.86
829	1.77	414	11.91973	16.17905	21.18959	414	7.37	1.69	-3.86	-4.82
831	1.77	415	11.90301	16.16216	21.20818	415	7.44	1.69	-3.85	-4.81
833	1.77	416	11.88629	16.17905	21.18959	416	7.46	1.7	-3.85	-4.81
835	1.77	417	11.88629	16.17905	21.24535	417	7.38	1.68	-3.85	-4.81
837	1.77	418	11.88629	16.17905	21.20818	418	7.42	1.69	-3.85	-4.82
839	1.78	419	11.88629	16.12838	21.22677	419	7.43	1.71	-3.84	-4.81
841	1.78	420	11.86957	16.16216	21.171	420	7.46	1.72	-3.84	-4.79
843	1.77	421	11.8194	16.16216	21.171	421	7.5	1.73	-3.84	-4.76
845	1.77	422	11.85284	16.11149	21.20818	422	7.51	1.74	-3.84	-4.77
847	1.78	423	11.85284	16.0777	21.171	423	7.42	1.74	-3.84	-4.78
849	1.77	424	11.85284	16.11149	21.18959	424	7.41	1.76	-3.83	-4.76
851	1.77	425	11.85284	16.14527	21.18959	425	7.45	1.75	-3.82	-4.75
853	1.77	426	11.85284	16.14527	21.18959	426	7.47	1.73	-3.82	-4.76
855	1.77	427	11.83612	16.02703	21.13383	427	7.46	1.73	-3.83	-4.75
857	1.77	428	11.78595	15.99324	21.11524	428	7.45	1.73	-3.82	-4.75

859	1.77	429	11.76923	16.01014	21.07807	429	7.44	1.72	-3.82	-4.74
861	1.77	430	11.73579	16.04392	21.09665	430	7.46	1.76	-3.81	-4.72
863	1.77	431	11.73579	16.01014	21.09665	431	7.46	1.73	-3.81	-4.75
865	1.78	432	11.75251	16.01014	21.07807	432	7.45	1.74	-3.81	-4.74
867	1.78	433	11.60201	15.70608	20.91078	433	7.41	1.72	-3.81	-4.72
869	1.77	434	11.26756	15.35135	20.65056	434	7.28	1.75	-3.8	-4.66
871	1.78	435	10.96656	15.31757	20.53903	435	7.36	1.74	-3.79	-4.71
873	1.78	436	10.86622	15.40203	20.57621	436	7.37	1.73	-3.8	-4.73
875	1.78	437	10.91639	15.53716	20.66914	437	7.42	1.74	-3.79	-4.7
877	1.78	438	11.03344	15.70608	20.76208	438	7.4	1.74	-3.8	-4.71
879	1.78	439	11.1505	15.79054	20.81784	439	7.4	1.73	-3.8	-4.73
881	1.78	440	11.23411	15.875	20.89219	440	7.4	1.72	-3.8	-4.73
883	1.78	441	11.38462	15.92568	20.92937	441	7.38	1.74	-3.79	-4.7
885	1.79	442	11.48495	16.01014	20.94796	442	7.4	1.73	-3.8	-4.69
887	1.78	443	11.56856	16.0777	21.0223	443	7.4	1.75	-3.8	-4.67
889	1.78	444	11.60201	16.01014	21.11524	444	7.39	1.77	-3.79	-4.65
891	1.79	445	11.63545	16.01014	21.15242	445	7.37	1.77	-3.8	-4.67
893	1.79	446	11.58528	16.04392	21.171	446	7.46	1.76	-3.79	-4.68
895	1.78	447	11.63545	16.06081	21.13383	447	7.43	1.74	-3.79	-4.67
897	1.79	448	11.6689	16.09459	21.171	448	7.4	1.73	-3.79	-4.68
899	1.79	449	11.68562	16.06081	21.15242	449	7.38	1.73	-3.79	-4.7
901	1.79	450	11.6689	16.06081	21.07807	450	7.39	1.74	-3.79	-4.68
903	1.79	451	11.70234	16.11149	21.15242	451	7.41	1.74	-3.78	-4.66
905	1.79	452	11.71906	16.0777	21.09665	452	7.41	1.77	-3.77	-4.64
907	1.78	453	11.80268	16.0777	21.07807	453	7.43	1.78	-3.77	-4.65
909	1.79	454	11.76923	16.02703	21.13383	454	7.38	1.76	-3.78	-4.67
911	1.79	455	11.76923	16.06081	21.11524	455	7.37	1.74	-3.78	-4.66
913	1.78	456	11.73579	16.06081	21.171	456	7.42	1.79	-3.76	-4.61
915	1.79	457	11.71906	16.04392	21.171	457	7.42	1.79	-3.77	-4.62
917	1.79	458	11.68562	16.04392	21.171	458	7.43	1.79	-3.77	-4.63
919	1.79	459	11.71906	16.0777	21.13383	459	7.44	1.81	-3.77	-4.61
921	1.79	460	11.71906	16.09459	21.13383	460	7.44	1.8	-3.77	-4.63
923	1.8	461	11.75251	16.09459	21.15242	461	7.39	1.81	-3.76	-4.61
925	1.79	462	11.78595	16.09459	21.11524	462	7.41	1.8	-3.77	-4.62
927	1.79	463	11.75251	16.14527	21.171	463	7.44	1.81	-3.76	-4.62
929	1.8	464	11.76923	16.06081	21.15242	464	7.44	1.79	-3.76	-4.63
931	1.79	465	11.76923	16.04392	21.15242	465	7.41	1.78	-3.77	-4.64
933	1.8	466	11.80268	16.09459	21.18959	466	7.42	1.78	-3.77	-4.63
935	1.8	467	11.80268	16.09459	21.171	467	7.39	1.78	-3.77	-4.64
937	1.8	468	11.8194	16.11149	21.171	468	7.41	1.81	-3.75	-4.63
939	1.8	469	11.76923	16.12838	21.20818	469	7.42	1.79	-3.76	-4.63
941	1.8	470	11.83612	16.12838	21.18959	470	7.43	1.82	-3.75	-4.61
943	1.8	471	11.85284	16.19595	21.20818	471	7.41	1.82	-3.75	-4.6
945	1.8	472	11.83612	16.22973	21.15242	472	7.42	1.78	-3.75	-4.61
947	1.8	473	11.76923	16.14527	21.15242	473	7.42	1.81	-3.74	-4.61

949	1.8	474	11.80268	16.11149	21.18959	474	7.39	1.8	-3.74	-4.6
951	1.8	475	11.85284	16.14527	21.15242	475	7.41	1.81	-3.73	-4.6
953	1.8	476	11.85284	16.0777	21.171	476	7.44	1.83	-3.72	-4.59
955	1.8	477	11.80268	16.0777	21.171	477	7.45	1.8	-3.73	-4.58
957	1.8	478	11.83612	16.06081	21.18959	478	7.48	1.82	-3.72	-4.59
959	1.81	479	11.85284	16.09459	21.18959	479	7.41	1.8	-3.72	-4.59
961	1.81	480	11.8194	16.0777	21.22677	480	7.42	1.82	-3.73	-4.58
963	1.8	481	11.80268	16.11149	21.24535	481	7.41	1.83	-3.71	-4.58
965	1.8	482	11.8194	16.12838	21.22677	482	7.45	1.82	-3.71	-4.58
967	1.81	483	11.76923	16.0777	21.20818	483	7.45	1.84	-3.71	-4.58
969	1.81	484	11.76923	16.0777	21.24535	484	7.45	1.84	-3.71	-4.57
971	1.81	485	11.83612	16.0777	21.24535	485	7.42	1.83	-3.71	-4.57
973	1.81	486	11.8194	16.14527	21.20818	486	7.43	1.82	-3.71	-4.57
975	1.81	487	11.78595	16.11149	21.20818	487	7.4	1.8	-3.71	-4.59
977	1.81	488	11.8194	16.11149	21.20818	488	7.38	1.83	-3.7	-4.57
979	1.81	489	11.80268	16.11149	21.22677	489	7.4	1.84	-3.7	-4.55
981	1.81	490	11.83612	16.09459	21.22677	490	7.4	1.85	-3.7	-4.55
983	1.81	491	11.88629	16.04392	21.22677	491	7.46	1.87	-3.69	-4.55
985	1.81	492	11.90301	16.09459	21.22677	492	7.45	1.87	-3.69	-4.55
987	1.82	493	11.85284	16.11149	21.18959	493	7.47	1.86	-3.69	-4.55
989	1.81	494	11.85284	16.09459	21.20818	494	7.45	1.86	-3.69	-4.56
991	1.82	495	11.8194	16.11149	21.26394	495	7.47	1.84	-3.68	-4.57
993	1.82	496	11.78595	16.11149	21.28253	496	7.47	1.87	-3.68	-4.53
995	1.81	497	11.83612	16.09459	21.22677	497	7.46	1.86	-3.68	-4.54
997	1.82	498	11.80268	16.0777	21.20818	498	7.48	1.87	-3.68	-4.52
999	1.82	499	11.78595	16.09459	21.22677	499	7.45	1.87	-3.68	-4.52
1001	1.82	500	11.83612	16.09459	21.26394	500	7.49	1.88	-3.67	-4.52
1003	1.82	501	11.8194	16.12838	21.24535	501	7.47	1.88	-3.67	-4.5
1005	1.82	502	11.83612	16.11149	21.18959	502	7.49	1.89	-3.67	-4.5
1007	1.82	503	11.86957	16.0777	21.18959	503	7.51	1.9	-3.66	-4.47
1009	1.82	504	11.88629	16.11149	21.18959	504	7.5	1.89	-3.67	-4.5
1011	1.82	505	11.86957	16.17905	21.171	505	7.47	1.86	-3.67	-4.51
1013	1.82	506	11.83612	16.17905	21.22677	506	7.46	1.87	-3.67	-4.52
1015	1.82	507	11.83612	16.11149	21.26394	507	7.46	1.88	-3.67	-4.5
1017	1.82	508	11.85284	16.0777	21.24535	508	7.48	1.9	-3.66	-4.49
1019	1.83	509	11.90301	16.0777	21.26394	509	7.46	1.87	-3.67	-4.52
1021	1.82	510	11.86957	16.02703	21.22677	510	7.46	1.87	-3.68	-4.5
1023	1.83	511	11.83612	16.0777	21.20818	511	7.47	1.89	-3.66	-4.5
1025	1.83	512	11.78595	16.12838	21.20818	512	7.44	1.87	-3.66	-4.48
1027	1.82	513	11.8194	16.16216	21.22677	513	7.45	1.88	-3.65	-4.48
1029	1.83	514	11.83612	16.16216	21.26394	514	7.49	1.88	-3.65	-4.48
1031	1.83	515	11.86957	16.12838	21.22677	515	7.48	1.88	-3.65	-4.48
1033	1.83	516	11.86957	16.09459	21.20818	516	7.52	1.92	-3.65	-4.46
1035	1.83	517	11.90301	16.0777	21.18959	517	7.47	1.88	-3.65	-4.49
1037	1.83	518	11.88629	16.06081	21.15242	518	7.47	1.87	-3.65	-4.48

1039	1.83	519	11.80268	15.99324	21.05948	519	7.49	1.88	-3.65	-4.49
1041	1.83	520	11.71906	15.99324	21.04089	520	7.33	1.85	-3.65	-4.45
1043	1.83	521	11.71906	16.01014	21.07807	521	7.42	1.83	-3.64	-4.46
1045	1.83	522	11.70234	16.01014	21.09665	522	7.47	1.87	-3.64	-4.47
1047	1.83	523	11.71906	16.06081	21.13383	523	7.5	1.92	-3.64	-4.45
1049	1.83	524	11.68562	16.04392	21.09665	524	7.51	1.92	-3.64	-4.45
1051	1.83	525	11.71906	16.09459	21.15242	525	7.5	1.93	-3.64	-4.45
1053	1.83	526	11.70234	16.12838	21.09665	526	7.49	1.93	-3.64	-4.45
1055	1.84	527	11.68562	16.12838	21.15242	527	7.49	1.92	-3.64	-4.42
1057	1.84	528	11.73579	16.09459	21.18959	528	7.52	1.94	-3.64	-4.41
1059	1.83	529	11.70234	16.0777	21.11524	529	7.52	1.94	-3.63	-4.41
1061	1.84	530	11.76923	16.06081	21.13383	530	7.55	1.97	-3.63	-4.37
1063	1.84	531	11.78595	16.09459	21.18959	531	7.5	1.95	-3.63	-4.38
1065	1.83	532	11.78595	16.02703	21.171	532	7.54	2	-3.63	-4.35
1067	1.84	533	11.85284	16.09459	21.20818	533	7.54	1.99	-3.63	-4.35
1069	1.84	534	11.83612	16.09459	21.18959	534	7.53	1.96	-3.64	-4.37
1071	1.84	535	11.85284	16.0777	21.18959	535	7.53	1.96	-3.64	-4.39
1073	1.84	536	11.86957	16.09459	21.18959	536	7.54	1.94	-3.63	-4.39
1075	1.84	537	11.85284	16.0777	21.171	537	7.53	1.94	-3.63	-4.38
1077	1.84	538	11.86957	16.09459	21.20818	538	7.53	1.97	-3.63	-4.37
1079	1.84	539	11.88629	16.09459	21.18959	539	7.53	1.97	-3.63	-4.37
1081	1.85	540	11.90301	16.11149	21.24535	540	7.53	1.96	-3.63	-4.35
1083	1.84	541	11.83612	16.12838	21.28253	541	7.6	1.95	-3.62	-4.36
1085	1.84	542	11.85284	16.09459	21.24535	542	7.54	1.97	-3.62	-4.35
1087	1.85	543	11.90301	16.11149	21.26394	543	7.53	1.99	-3.62	-4.35
1089	1.85	544	11.88629	16.17905	21.28253	544	7.53	1.98	-3.62	-4.35
1091	1.85	545	11.88629	16.17905	21.28253	545	7.55	1.98	-3.63	-4.35
1093	1.84	546	11.88629	16.12838	21.26394	546	7.52	2.02	-3.62	-4.33
1095	1.84	547	11.86957	16.11149	21.20818	547	7.53	1.99	-3.62	-4.36
1097	1.83	548	11.88629	16.04392	21.24535	548	7.54	1.98	-3.62	-4.36
1099	1.84	549	11.90301	16.0777	21.26394	549	7.54	1.97	-3.62	-4.35
1101	1.85	550	11.90301	16.01014	21.171	550	7.54	1.97	-3.62	-4.35
1103	1.85	551	11.8194	15.90878	21.09665	551	7.55	1.98	-3.61	-4.32
1105	1.85	552	11.73579	15.97635	21.13383	552	7.47	2.1	-3.61	-4.29
1107	1.86	553	11.71906	15.99324	21.07807	553	7.58	2.02	-3.6	-4.3
1109	1.85	554	11.73579	16.02703	21.171	554	7.62	2.04	-3.6	-4.3
1111	1.85	555	11.73579	16.0777	21.18959	555	7.6	2.03	-3.61	-4.32
1113	1.86	556	11.73579	16.04392	21.24535	556	7.58	2	-3.6	-4.33
1115	1.86	557	11.78595	16.04392	21.26394	557	7.57	2	-3.59	-4.33
1117	1.85	558	11.76923	16.04392	21.26394	558	7.56	1.98	-3.6	-4.35
1119	1.86	559	11.80268	16.02703	21.26394	559	7.6	2	-3.6	-4.31
1121	1.85	560	11.83612	16.02703	21.24535	560	7.56	2.02	-3.59	-4.31
1123	1.86	561	11.8194	16.04392	21.24535	561	7.59	2.02	-3.6	-4.3
1125	1.86	562	11.85284	16.01014	21.24535	562	7.61	2.02	-3.59	-4.28
1127	1.85	563	11.8194	16.06081	21.22677	563	7.59	2.03	-3.59	-4.28

1129	1.85	564	11.8194	16.06081	21.24535	564	7.59	2.04	-3.6	-4.27
1131	1.86	565	11.8194	16.02703	21.22677	565	7.61	2.05	-3.6	-4.27
1133	1.85	566	11.83612	16.02703	21.26394	566	7.64	2.06	-3.58	-4.26
1135	1.85	567	11.88629	15.95946	21.26394	567	7.61	2.04	-3.59	-4.28
1137	1.86	568	11.88629	15.90878	21.26394	568	7.6	2.04	-3.58	-4.28
1139	1.85	569	11.90301	15.97635	21.24535	569	7.59	2.04	-3.58	-4.27
1141	1.85	570	11.85284	16.0777	21.24535	570	7.56	2.03	-3.59	-4.28
		571	11.86957	16.11149	21.18959	571	7.58	2.01	-3.59	-4.31
		572	11.88629	16.0777	21.22677	572	7.57	2.02	-3.58	-4.29
		573	11.90301	16.09459	21.20818	573	7.58	2.02	-3.59	-4.28
		574	11.85284	16.09459	21.18959	574	7.59	2.03	-3.58	-4.27
		575	11.90301	16.11149	21.20818	575	7.53	2.02	-3.59	-4.28
		576	11.85284	16.0777	21.20818	576	7.58	2.07	-3.59	-4.27
		577	11.80268	16.0777	21.24535	577	7.6	2.05	-3.58	-4.28
		578	11.80268	16.06081	21.24535	578	7.59	2.08	-3.58	-4.26
		579	11.83612	16.02703	21.20818	579	7.61	2.09	-3.57	-4.25
		580	11.83612	16.02703	21.18959	580	7.6	2.04	-3.57	-4.25
		581	11.85284	16.02703	21.18959	581	7.59	2.05	-3.57	-4.24
		582	11.85284	15.99324	21.18959	582	7.6	2.07	-3.57	-4.23
		583	11.86957	16.04392	21.24535	583	7.55	2.04	-3.57	-4.26
		584	11.86957	16.0777	21.22677	584	7.6	2.06	-3.57	-4.24
		585	11.85284	16.0777	21.20818	585	7.61	2.08	-3.56	-4.24
		586	11.86957	16.09459	21.24535	586	7.63	2.07	-3.57	-4.24
		587	11.86957	16.12838	21.22677	587	7.6	2.08	-3.57	-4.24
		588	11.86957	16.11149	21.24535	588	7.58	2.05	-3.57	-4.25
		589	11.86957	16.09459	21.26394	589	7.55	2.06	-3.56	-4.22
		590	11.86957	16.0777	21.28253	590	7.52	2	-3.56	-4.25
		591	11.8194	16.09459	21.24535	591	7.52	1.99	-3.56	-4.26
		592	11.8194	16.17905	21.26394	592	7.52	1.98	-3.56	-4.25
		593	11.85284	16.14527	21.26394	593	7.57	2.05	-3.55	-4.22
		594	11.86957	16.09459	21.28253	594	7.61	2.05	-3.55	-4.22
		595	11.8194	16.0777	21.24535	595	7.57	2.06	-3.55	-4.22
		596	11.73579	16.09459	21.20818	596	7.58	2.08	-3.55	-4.22
		597	11.58528	15.97635	21.11524	597	7.63	2.09	-3.55	-4.2
		598	11.46823	15.875	21.00372	598	7.59	2.1	-3.55	-4.2
		599	11.36789	15.79054	20.94796	599	7.63	2.11	-3.55	-4.21
		600	11.26756	15.70608	20.87361	600	7.59	2.1	-3.54	-4.2
		601	11.1505	15.57095	20.79926	601	7.57	2.1	-3.55	-4.22
		602	11.06689	15.57095	20.72491	602	7.63	2.13	-3.54	-4.23
		603	10.96656	15.50338	20.72491	603	7.59	2.1	-3.54	-4.23
		604	10.96656	15.46959	20.65056	604	7.56	2.1	-3.54	-4.24
		605	10.88294	15.43581	20.63197	605	7.58	2.12	-3.53	-4.23
		606	10.86622	15.40203	20.61338	606	7.57	2.14	-3.54	-4.23
		607	10.81605	15.35135	20.5948	607	7.6	2.15	-3.53	-4.25
		608	10.76589	15.31757	20.5948	608	7.57	2.09	-3.54	-4.22

609	10.68227	15.30068	20.55762	609	7.58	2.13	-3.54	-4.26
610	10.66555	15.25	20.52045	610	7.58	2.17	-3.53	-4.28
611	10.64883	15.23311	20.48327	611	7.61	2.14	-3.53	-4.28
612	10.63211	15.26689	20.46468	612	7.56	2.11	-3.52	-4.26
613	10.53177	15.21622	20.46468	613	7.61	2.12	-3.52	-4.25
614	10.3311	15.06419	20.35316	614	7.6	2.17	-3.52	-4.25
615	10.0301	14.86149	20.22305	615	7.56	2.13	-3.51	-4.23
616	9.729097	14.57432	20.07435	616	7.6	2.14	-3.51	-4.25
617	9.411371	14.37162	19.81413	617	7.59	2.16	-3.51	-4.26
618	8.959866	14.18581	19.5539	618	7.58	2.13	-3.5	-4.24
619	8.541806	13.94932	19.4052	619	7.55	2.2	-3.49	-4.28
620	8.257525	13.74662	19.21933	620	7.48	2.27	-3.49	-4.32
621	7.973244	13.59459	19.08922	621	7.55	2.16	-3.48	-4.35
622	7.722408	13.45946	18.9777	622	7.54	2.18	-3.48	-4.38
623	7.505017	13.30743	18.86617	623	7.56	2.2	-3.48	-4.37
624	7.270903	13.32432	18.75465	624	7.53	2.24	-3.47	-4.42
625	7.153846	13.375	18.77323	625	7.48	2.28	-3.46	-4.45
626	7.053512	13.25676	18.71747	626	7.59	2.28	-3.44	-4.47
627	6.936455	13.00338	18.56877	627	7.5	2.19	-3.44	-4.45
628	6.936455	13.03716	18.51301	628	7.5	2.06	-3.43	-4.38
629	7.120401	13.27365	18.60595	629	7.57	2.08	-3.44	-4.34
630	7.304348	13.52703	18.69888	630	7.58	2.14	-3.44	-4.38
631	7.438127	13.71284	18.81041	631	7.58	2.16	-3.45	-4.42
632	7.605351	13.84797	18.92193	632	7.46	2.25	-3.45	-4.45
633	7.856187	14.08446	19.10781	633	7.55	2.19	-3.45	-4.44
634	8.140468	14.30405	19.33086	634	7.51	2.23	-3.45	-4.44
635	8.391304	14.43919	19.47955	635	7.52	2.22	-3.44	-4.47
636	8.675585	14.57432	19.57249	636	7.58	2.2	-3.45	-4.43
637	8.943144	14.69257	19.7026	637	7.61	2.2	-3.45	-4.41
638	9.143813	14.76014	19.77695	638	7.6	2.16	-3.45	-4.38
639	9.277592	14.87838	19.79554	639	7.63	2.16	-3.46	-4.38
640	9.377926	14.96284	19.83271	640	7.63	2.2	-3.45	-4.38
641	9.494983	14.99662	19.92565	641	7.64	2.16	-3.46	-4.36
642	9.561873	15.03041	19.96283	642	7.62	2.19	-3.47	-4.39
643	9.67893	15.09797	20.07435	643	7.6	2.2	-3.47	-4.39
644	9.762542	15.18243	20.13011	644	7.6	2.19	-3.47	-4.38
645	9.846154	15.19932	20.11152	645	7.63	2.2	-3.47	-4.38
646	9.896321	15.14865	20.09294	646	7.62	2.15	-3.46	-4.33
647	9.946488	15.13176	20.16729	647	7.63	2.14	-3.47	-4.33
648	9.963211	15.19932	20.16729	648	7.57	2.13	-3.47	-4.31
649	9.963211	15.26689	20.16729	649	7.62	2.18	-3.47	-4.34
650	10.0301	15.21622	20.22305	650	7.64	2.17	-3.48	-4.34
651	10.06355	15.18243	20.31599	651	7.66	2.17	-3.47	-4.34
652	10.11371	15.21622	20.33457	652	7.6	2.17	-3.48	-4.34
653	10.09699	15.19932	20.31599	653	7.63	2.19	-3.48	-4.34

654	10.09699	15.21622	20.33457	654	7.62	2.16	-3.48	-4.35
655	10.11371	15.21622	20.35316	655	7.6	2.13	-3.49	-4.32
656	10.08027	15.23311	20.2974	656	7.6	2.14	-3.5	-4.3
657	10.09699	15.23311	20.35316	657	7.64	2.23	-3.49	-4.33
658	10.13043	15.25	20.42751	658	7.62	2.23	-3.48	-4.33
659	10.19732	15.21622	20.42751	659	7.62	2.18	-3.49	-4.31
660	10.21405	15.21622	20.42751	660	7.65	2.2	-3.49	-4.34
661	10.26421	15.28378	20.40892	661	7.65	2.18	-3.49	-4.34
662	10.31438	15.31757	20.42751	662	7.62	2.18	-3.5	-4.32
663	10.29766	15.30068	20.46468	663	7.62	2.18	-3.49	-4.3
664	10.31438	15.35135	20.48327	664	7.65	2.16	-3.49	-4.3
665	10.36455	15.33446	20.48327	665	7.62	2.16	-3.49	-4.3
666	10.34783	15.26689	20.53903	666	7.59	2.17	-3.5	-4.31
667	10.36455	15.31757	20.53903	667	7.6	2.21	-3.49	-4.31
668	10.41472	15.30068	20.52045	668	7.59	2.18	-3.5	-4.31
669	10.41472	15.30068	20.48327	669	7.59	2.16	-3.5	-4.32
670	10.43144	15.31757	20.48327	670	7.63	2.19	-3.5	-4.32
671	10.48161	15.40203	20.48327	671	7.6	2.19	-3.5	-4.33
672	10.49833	15.36824	20.50186	672	7.63	2.18	-3.5	-4.31
673	10.53177	15.33446	20.55762	673	7.63	2.19	-3.5	-4.32
674	10.49833	15.35135	20.52045	674	7.61	2.2	-3.5	-4.33
675	10.53177	15.33446	20.46468	675	7.62	2.19	-3.5	-4.32
676	10.56522	15.38514	20.48327	676	7.62	2.19	-3.5	-4.34
677	10.58194	15.4527	20.53903	677	7.61	2.16	-3.5	-4.31
678	10.56522	15.38514	20.57621	678	7.61	2.18	-3.5	-4.3
679	10.51505	15.35135	20.50186	679	7.6	2.17	-3.49	-4.28
680	10.54849	15.38514	20.46468	680	7.6	2.13	-3.5	-4.25
681	10.54849	15.36824	20.53903	681	7.64	2.18	-3.49	-4.29
682	10.54849	15.36824	20.57621	682	7.59	2.24	-3.49	-4.34
683	10.51505	15.35135	20.57621	683	7.62	2.24	-3.49	-4.37
684	10.53177	15.40203	20.5948	684	7.66	2.23	-3.49	-4.36
685	10.64883	15.43581	20.57621	685	7.63	2.19	-3.49	-4.34
686	10.68227	15.43581	20.5948	686	7.68	2.18	-3.48	-4.3
687	10.699	15.4527	20.5948	687	7.66	2.18	-3.49	-4.31
688	10.74916	15.46959	20.5948	688	7.67	2.22	-3.48	-4.31
689	10.78261	15.50338	20.65056	689	7.66	2.21	-3.48	-4.32
690	10.74916	15.48649	20.61338	690	7.68	2.19	-3.48	-4.29
691	10.74916	15.52027	20.57621	691	7.63	2.24	-3.49	-4.33
692	10.79933	15.50338	20.61338	692	7.69	2.25	-3.48	-4.35
693	10.83278	15.50338	20.61338	693	7.69	2.2	-3.47	-4.31
694	10.8495	15.48649	20.63197	694	7.7	2.23	-3.47	-4.33
695	10.86622	15.55405	20.66914	695	7.67	2.22	-3.47	-4.31
696	10.88294	15.53716	20.66914	696	7.71	2.23	-3.48	-4.33
697	10.86622	15.52027	20.68773	697	7.68	2.24	-3.47	-4.31
698	10.93311	15.55405	20.68773	698	7.67	2.19	-3.47	-4.28

699	10.93311	15.60473	20.72491	699	7.69	2.24	-3.47	-4.29
700	10.93311	15.60473	20.74349	700	7.67	2.26	-3.47	-4.31
701	10.94983	15.63851	20.76208	701	7.64	2.24	-3.48	-4.32
702	11	15.62162	20.76208	702	7.67	2.24	-3.47	-4.34
703	11.03344	15.63851	20.70632	703	7.62	2.21	-3.48	-4.32
704	11.05017	15.68919	20.68773	704	7.67	2.24	-3.48	-4.31
705	11.06689	15.6723	20.74349	705	7.68	2.23	-3.47	-4.31
706	11.13378	15.62162	20.72491	706	7.67	2.27	-3.47	-4.31
707	11.10033	15.65541	20.78067	707	7.67	2.19	-3.47	-4.31
708	11.1505	15.73986	20.70632	708	7.64	2.24	-3.47	-4.31
709	11.20067	15.75676	20.78067	709	7.66	2.23	-3.47	-4.32
710	11.20067	15.79054	20.78067	710	7.65	2.2	-3.47	-4.28
711	11.25084	15.75676	20.74349	711	7.66	2.23	-3.47	-4.32
712	11.26756	15.77365	20.81784	712	7.66	2.24	-3.48	-4.32
713	11.33445	15.80743	20.89219	713	7.67	2.23	-3.48	-4.31
714	11.38462	15.82432	20.83643	714	7.68	2.23	-3.48	-4.32
715	11.41806	15.77365	20.87361	715	7.65	2.23	-3.48	-4.34
716	11.41806	15.77365	20.89219	716	7.68	2.23	-3.47	-4.33
717	11.43478	15.79054	20.87361	717	7.59	2.2	-3.48	-4.37
718	11.45151	15.82432	20.89219	718	7.61	2.14	-3.47	-4.3
719	11.46823	15.85811	20.92937	719	7.68	2.19	-3.47	-4.29
720	11.48495	15.85811	20.91078	720	7.67	2.2	-3.48	-4.31
721	11.48495	15.92568	20.94796	721	7.68	2.21	-3.48	-4.32
722	11.55184	15.97635	20.94796	722	7.67	2.25	-3.48	-4.32
723	11.56856	15.94257	20.96654	723	7.68	2.2	-3.47	-4.28
724	11.65217	15.97635	20.94796	724	7.67	2.22	-3.47	-4.29
725	11.70234	15.99324	21.00372	725	7.67	2.23	-3.47	-4.29
726	11.75251	16.06081	21.00372	726	7.64	2.25	-3.47	-4.3
727	11.76923	16.02703	21.07807	727	7.62	2.24	-3.47	-4.31
728	11.80268	15.97635	21.04089	728	7.63	2.18	-3.48	-4.26
729	11.83612	15.97635	21.04089	729	7.64	2.22	-3.48	-4.29
730	11.83612	15.99324	21.04089	730	7.63	2.25	-3.47	-4.28
731	11.88629	15.99324	21.11524	731	7.55	2.16	-3.47	-4.27
732	11.90301	16.01014	21.09665	732	7.64	2.19	-3.47	-4.25
733	11.88629	15.99324	21.15242	733	7.67	2.23	-3.48	-4.3
734	11.91973	16.02703	21.11524	734	7.66	2.23	-3.48	-4.29
735	11.88629	15.99324	21.07807	735	7.67	2.23	-3.48	-4.29
736	11.88629	16.0777	21.11524	736	7.65	2.18	-3.48	-4.28
737	11.91973	16.02703	21.13383	737	7.67	2.22	-3.47	-4.26
738	11.91973	16.06081	21.15242	738	7.67	2.22	-3.46	-4.28
739	11.91973	16.04392	21.15242	739	7.68	2.25	-3.46	-4.27
740	11.9699	16.02703	21.15242	740	7.66	2.27	-3.47	-4.3
741	11.95318	16.02703	21.15242	741	7.66	2.25	-3.46	-4.31
742	11.93645	16.06081	21.13383	742	7.64	2.24	-3.46	-4.3
743	11.91973	16.04392	21.09665	743	7.62	2.26	-3.45	-4.29

744	11.95318	16.02703	21.07807	744	7.62	2.23	-3.46	-4.3
745	11.98662	16.02703	21.13383	745	7.67	2.26	-3.45	-4.29
746	11.98662	16.02703	21.15242	746	7.69	2.25	-3.45	-4.29
747	12.00334	16.02703	21.171	747	7.68	2.25	-3.46	-4.29
748	12.00334	16.06081	21.171	748	7.66	2.24	-3.45	-4.29
749	12.02007	16.0777	21.09665	749	7.7	2.25	-3.45	-4.29
750	12.02007	16.06081	21.18959	750	7.69	2.26	-3.46	-4.29
751	12.03679	16.01014	21.171	751	7.68	2.26	-3.44	-4.28
752	12.07023	16.06081	21.22677	752	7.66	2.26	-3.44	-4.28
753	12.05351	16.04392	21.20818	753	7.72	2.26	-3.44	-4.28
754	12.05351	16.04392	21.18959	754	7.65	2.24	-3.44	-4.26
755	12.08696	16.06081	21.22677	755	7.65	2.26	-3.44	-4.27
756	12.03679	16.04392	21.20818	756	7.68	2.26	-3.45	-4.27
757	12.07023	16.01014	21.20818	757	7.71	2.29	-3.44	-4.26
758	12.05351	16.04392	21.24535	758	7.67	2.27	-3.44	-4.26
759	12.08696	16.02703	21.24535	759	7.64	2.22	-3.44	-4.28
760	12.07023	16.02703	21.20818	760	7.68	2.28	-3.44	-4.28
761	12.03679	16.04392	21.15242	761	7.7	2.23	-3.44	-4.27
762	12.02007	16.0777	21.171	762	7.67	2.23	-3.44	-4.27
763	12.00334	16.02703	21.171	763	7.69	2.26	-3.44	-4.28
764	12.03679	16.0777	21.22677	764	7.68	2.27	-3.44	-4.29
765	12.03679	16.09459	21.22677	765	7.68	2.29	-3.43	-4.29
766	12.00334	16.06081	21.24535	766	7.68	2.25	-3.43	-4.27
767	12.07023	16.09459	21.18959	767	7.7	2.28	-3.44	-4.28
768	12.08696	16.09459	21.22677	768	7.69	2.28	-3.43	-4.29
769	12.10368	16.0777	21.22677	769	7.73	2.25	-3.43	-4.28
770	12.10368	16.11149	21.24535	770	7.7	2.25	-3.44	-4.29
771	12.05351	16.02703	21.22677	771	7.69	2.26	-3.44	-4.27
772	12.13712	16.04392	21.20818	772	7.66	2.25	-3.44	-4.27
773	12.17057	16.06081	21.22677	773	7.69	2.23	-3.44	-4.26
774	12.10368	16.0777	21.20818	774	7.7	2.26	-3.43	-4.26
775	12.05351	16.12838	21.24535	775	7.65	2.25	-3.43	-4.27
776	12.10368	16.06081	21.22677	776	7.71	2.26	-3.43	-4.28
777	12.08696	16.06081	21.28253	777	7.68	2.25	-3.44	-4.28
778	12.07023	16.04392	21.30112	778	7.7	2.25	-3.43	-4.27
779	12.1204	16.04392	21.30112	779	7.7	2.24	-3.44	-4.26
780	12.10368	16.09459	21.3197	780	7.7	2.27	-3.43	-4.26
781	12.08696	16.09459	21.26394	781	7.67	2.24	-3.43	-4.26
782	12.10368	16.09459	21.24535	782	7.68	2.22	-3.43	-4.24
783	12.08696	16.09459	21.18959	783	7.72	2.27	-3.42	-4.24
784	12.07023	16.04392	21.18959	784	7.71	2.27	-3.42	-4.24
785	12.10368	16.12838	21.18959	785	7.72	2.25	-3.42	-4.25
786	12.08696	16.0777	21.22677	786	7.72	2.24	-3.42	-4.25
787	12.07023	15.99324	21.28253	787	7.73	2.27	-3.42	-4.27
788	12.03679	16.01014	21.24535	788	7.66	2.24	-3.42	-4.27

789	12.07023	15.97635	21.18959	789	7.7	2.27	-3.42	-4.27
790	12.07023	15.97635	21.18959	790	7.73	2.28	-3.42	-4.28
791	12.03679	15.99324	21.20818	791	7.73	2.29	-3.42	-4.27
792	12.00334	16.06081	21.24535	792	7.72	2.26	-3.42	-4.27
793	12.00334	16.06081	21.24535	793	7.76	2.29	-3.41	-4.27
794	11.9699	16.01014	21.30112	794	7.74	2.29	-3.42	-4.27
795	12.03679	16.02703	21.18959	795	7.7	2.27	-3.42	-4.27
796	12.05351	16.01014	21.13383	796	7.66	2.2	-3.42	-4.25
797	12.03679	16.01014	21.15242	797	7.74	2.24	-3.42	-4.25
798	12.05351	16.04392	21.20818	798	7.69	2.27	-3.42	-4.26
799	12.07023	16.01014	21.24535	799	7.68	2.28	-3.42	-4.28
800	12.08696	16.02703	21.20818	800	7.68	2.28	-3.42	-4.27
801	12.10368	16.0777	21.20818	801	7.67	2.3	-3.42	-4.27
802	12.07023	16.12838	21.24535	802	7.7	2.29	-3.42	-4.26
803	12.05351	16.02703	21.22677	803	7.7	2.28	-3.41	-4.26
804	12.05351	16.04392	21.20818	804	7.69	2.26	-3.41	-4.25
805	12.07023	16.11149	21.24535	805	7.7	2.3	-3.41	-4.27
806	12.13712	16.04392	21.24535	806	7.7	2.31	-3.41	-4.28
807	12.08696	16.02703	21.26394	807	7.69	2.25	-3.41	-4.24
808	12.03679	16.02703	21.24535	808	7.65	2.18	-3.41	-4.19
809	12.05351	16.09459	21.22677	809	7.68	2.26	-3.41	-4.18
810	12.08696	16.06081	21.24535	810	7.72	2.28	-3.41	-4.23
811	12.05351	16.0777	21.26394	811	7.63	2.2	-3.4	-4.23
812	12.03679	16.04392	21.20818	812	7.63	2.21	-3.41	-4.18
813	12.03679	16.04392	21.20818	813	7.66	2.27	-3.41	-4.22
814	12.02007	16.02703	21.171	814	7.68	2.25	-3.41	-4.24
815	12.03679	16.11149	21.171	815	7.67	2.33	-3.41	-4.26
816	12.08696	16.14527	21.22677	816	7.68	2.26	-3.41	-4.26
817	12.00334	16.09459	21.26394	817	7.71	2.27	-3.41	-4.25
818	12.00334	16.0777	21.28253	818	7.73	2.27	-3.41	-4.25
819	12.07023	16.09459	21.20818	819	7.69	2.27	-3.4	-4.25
820	12.02007	16.04392	21.22677	820	7.71	2.29	-3.39	-4.25
821	12.07023	16.02703	21.22677	821	7.71	2.3	-3.39	-4.26
822	12.10368	16.02703	21.22677	822	7.69	2.26	-3.4	-4.23
823	12.1204	16.06081	21.22677	823	7.69	2.3	-3.4	-4.24
824	12.07023	16.0777	21.22677	824	7.7	2.28	-3.4	-4.23
825	12.08696	15.99324	21.20818	825	7.72	2.26	-3.4	-4.25
826	12.08696	16.11149	21.24535	826	7.68	2.28	-3.39	-4.25
827	12.1204	16.09459	21.26394	827	7.66	2.29	-3.39	-4.26
828	12.10368	15.97635	21.20818	828	7.7	2.28	-3.39	-4.25
829	11.9699	15.94257	21.18959	829	7.63	2.34	-3.39	-4.25
830	11.88629	15.99324	21.09665	830	7.64	2.41	-3.38	-4.25
831	11.90301	15.97635	21.11524	831	7.59	2.39	-3.38	-4.27
832	11.91973	15.95946	21.13383	832	7.65	2.41	-3.38	-4.29
833	11.91973	15.95946	21.13383	833	7.69	2.37	-3.38	-4.27

834	11.95318	15.97635	21.22677	834	7.72	2.37	-3.37	-4.28
835	11.98662	16.02703	21.18959	835	7.75	2.36	-3.37	-4.27
836	12.00334	16.01014	21.18959	836	7.71	2.32	-3.37	-4.23
837	12.05351	16.01014	21.18959	837	7.75	2.37	-3.37	-4.24
838	12.03679	16.01014	21.24535	838	7.72	2.33	-3.38	-4.25
839	12.02007	16.06081	21.28253	839	7.69	2.3	-3.38	-4.28
840	12.05351	16.06081	21.30112	840	7.69	2.31	-3.37	-4.27
841	12.05351	16.0777	21.26394	841	7.69	2.32	-3.37	-4.29
842	12.08696	16.0777	21.24535	842	7.7	2.31	-3.37	-4.29
843	12.10368	16.02703	21.26394	843	7.72	2.3	-3.37	-4.26
844	12.17057	16.02703	21.24535	844	7.74	2.31	-3.37	-4.25
845	12.15385	16.02703	21.26394	845	7.73	2.29	-3.37	-4.24
846	12.15385	16.02703	21.20818	846	7.74	2.32	-3.37	-4.25
847	12.15385	16.04392	21.28253	847	7.74	2.33	-3.37	-4.26
848	12.15385	16.0777	21.28253	848	7.69	2.26	-3.37	-4.24
849	12.18729	16.0777	21.30112	849	7.72	2.29	-3.37	-4.26
850	12.17057	16.06081	21.28253	850	7.75	2.29	-3.37	-4.26
851	12.13712	16.06081	21.22677	851	7.71	2.33	-3.37	-4.24
852	12.13712	16.06081	21.28253	852	7.71	2.32	-3.37	-4.25
853	12.15385	16.04392	21.28253	853	7.7	2.32	-3.37	-4.26
854	12.13712	16.0777	21.20818	854	7.72	2.3	-3.36	-4.23
855	12.13712	16.09459	21.24535	855	7.71	2.33	-3.37	-4.25
856	12.13712	16.12838	21.24535	856	7.72	2.32	-3.36	-4.25
857	12.15385	16.09459	21.28253	857	7.73	2.3	-3.36	-4.22
858	12.17057	16.0777	21.26394	858	7.76	2.32	-3.36	-4.22
859	12.18729	16.06081	21.20818	859	7.77	2.32	-3.36	-4.22
860	12.17057	16.0777	21.28253	860	7.74	2.37	-3.36	-4.24
861	12.15385	16.0777	21.28253	861	7.74	2.36	-3.36	-4.27
862	12.17057	16.06081	21.18959	862	7.73	2.35	-3.36	-4.27
863	12.15385	16.01014	21.18959	863	7.72	2.24	-3.36	-4.18
864	12.07023	16.01014	21.22677	864	7.76	2.27	-3.37	-4.17
865	12.02007	16.02703	21.171	865	7.73	2.29	-3.37	-4.2
866	12.03679	16.0777	21.18959	866	7.72	2.29	-3.37	-4.2
867	12.08696	16.01014	21.24535	867	7.72	2.29	-3.37	-4.19
868	12.10368	16.06081	21.22677	868	7.73	2.28	-3.37	-4.2
869	12.08696	16.0777	21.15242	869	7.74	2.29	-3.37	-4.19
870	12.10368	16.09459	21.20818	870	7.75	2.32	-3.36	-4.18
871	12.13712	16.09459	21.22677	871	7.73	2.3	-3.36	-4.2
872	12.08696	16.0777	21.26394	872	7.7	2.23	-3.36	-4.16
873	12.1204	16.06081	21.28253	873	7.7	2.28	-3.37	-4.17
874	12.1204	16.06081	21.24535	874	7.72	2.31	-3.37	-4.2
875	12.13712	16.0777	21.26394	875	7.73	2.32	-3.37	-4.2
876	12.13712	16.09459	21.22677	876	7.72	2.3	-3.36	-4.2
877	12.1204	16.06081	21.18959	877	7.7	2.32	-3.36	-4.22
878	12.1204	16.04392	21.26394	878	7.73	2.38	-3.36	-4.25

879	12.08696	16.02703	21.26394	879	7.73	2.38	-3.36	-4.23
880	12.07023	16.0777	21.26394	880	7.74	2.37	-3.35	-4.23
881	12.1204	16.11149	21.24535	881	7.71	2.35	-3.35	-4.25
882	12.13712	16.11149	21.22677	882	7.67	2.37	-3.35	-4.24
883	12.15385	16.11149	21.18959	883	7.73	2.38	-3.34	-4.24
884	12.13712	16.09459	21.24535	884	7.75	2.31	-3.34	-4.2
885	12.15385	16.11149	21.24535	885	7.74	2.35	-3.35	-4.23
886	12.15385	16.0777	21.20818	886	7.72	2.35	-3.35	-4.24
887	12.15385	16.04392	21.20818	887	7.75	2.39	-3.35	-4.25
888	12.15385	16.01014	21.20818	888	7.7	2.44	-3.34	-4.25
889	12.13712	15.97635	21.20818	889	7.65	2.45	-3.33	-4.25
890	12.17057	16.04392	21.24535	890	7.69	2.46	-3.33	-4.24
891	12.17057	16.06081	21.171	891	7.67	2.47	-3.32	-4.25
892	12.15385	16.06081	21.22677	892	7.81	2.44	-3.31	-4.25
893	12.08696	16.12838	21.18959	893	7.79	2.44	-3.32	-4.25
894	12.08696	16.16216	21.22677	894	7.78	2.44	-3.31	-4.25
895	12.10368	16.12838	21.24535	895	7.72	2.33	-3.32	-4.2
896	12.17057	16.14527	21.22677	896	7.73	2.4	-3.32	-4.21
897	12.20401	16.0777	21.18959	897	7.77	2.38	-3.32	-4.19
898	12.17057	16.0777	21.18959	898	7.78	2.33	-3.31	-4.2
899	12.22074	16.09459	21.20818	899	7.75	2.35	-3.31	-4.21
900	12.17057	16.09459	21.22677	900	7.73	2.32	-3.31	-4.19
901	12.17057	16.11149	21.18959	901	7.73	2.3	-3.31	-4.17
902	12.17057	16.0777	21.20818	902	7.76	2.37	-3.32	-4.18
903	12.23746	16.06081	21.3197	903	7.75	2.36	-3.32	-4.2
904	12.20401	16.02703	21.30112	904	7.75	2.35	-3.32	-4.22
905	12.15385	16.04392	21.24535	905	7.73	2.34	-3.32	-4.22
906	12.1204	16.06081	21.26394	906	7.71	2.31	-3.32	-4.17
907	12.1204	16.06081	21.26394	907	7.76	2.34	-3.33	-4.17
908	12.15385	16.01014	21.24535	908	7.72	2.29	-3.33	-4.17
909	12.17057	16.0777	21.24535	909	7.75	2.32	-3.33	-4.19
910	12.22074	16.11149	21.22677	910	7.73	2.31	-3.33	-4.19
911	12.22074	16.09459	21.24535	911	7.74	2.29	-3.33	-4.19
912	12.18729	16.0777	21.24535	912	7.76	2.32	-3.34	-4.21
913	12.15385	16.04392	21.18959	913	7.8	2.3	-3.33	-4.18
914	12.13712	16.04392	21.22677	914	7.66	2.43	-3.33	-4.22
915	12.15385	16.0777	21.22677	915	7.69	2.42	-3.33	-4.23
916	12.18729	16.06081	21.20818	916	7.65	2.43	-3.32	-4.23
917	12.17057	16.06081	21.24535	917	7.68	2.46	-3.32	-4.23
918	12.05351	16.02703	21.24535	918	7.7	2.46	-3.32	-4.26
919	11.9699	15.97635	21.171	919	7.69	2.43	-3.31	-4.24
920	11.95318	15.94257	21.11524	920	7.83	2.34	-3.3	-4.21
921	11.95318	15.97635	21.11524	921	7.73	2.37	-3.3	-4.19
922	12.00334	15.97635	21.11524	922	7.78	2.39	-3.3	-4.2
923	12.02007	16.01014	21.13383	923	7.75	2.39	-3.3	-4.2

924	12.02007	16.04392	21.171	924	7.75	2.35	-3.3	-4.18
925	12.05351	16.04392	21.20818	925	7.78	2.38	-3.31	-4.2
926	12.10368	16.04392	21.22677	926	7.74	2.37	-3.31	-4.22
927	12.03679	16.09459	21.22677	927	7.77	2.36	-3.3	-4.2
928	12.03679	16.0777	21.18959	928	7.75	2.34	-3.31	-4.17
929	12.08696	16.06081	21.20818	929	7.77	2.34	-3.31	-4.2
930	12.1204	16.09459	21.18959	930	7.76	2.35	-3.32	-4.2
931	12.10368	16.06081	21.13383	931	7.76	2.34	-3.32	-4.2
932	12.07023	16.06081	21.18959	932	7.72	2.36	-3.31	-4.19
933	12.13712	15.99324	21.20818	933	7.7	2.41	-3.31	-4.24
934	12.1204	15.99324	21.18959	934	7.76	2.35	-3.31	-4.22
935	12.10368	16.06081	21.20818	935	7.71	2.36	-3.31	-4.24
936	12.17057	16.0777	21.22677	936	7.72	2.33	-3.31	-4.2
937	12.1204	16.06081	21.18959	937	7.71	2.32	-3.31	-4.21
938	12.10368	16.04392	21.171	938	7.67	2.28	-3.31	-4.14
939	12.13712	16.02703	21.20818	939	7.7	2.33	-3.31	-4.15
940	12.15385	15.97635	21.20818	940	7.75	2.35	-3.31	-4.18
941	12.18729	16.04392	21.18959	941	7.75	2.39	-3.31	-4.19
942	12.13712	16.01014	21.18959	942	7.7	2.35	-3.31	-4.21
943	12.13712	15.97635	21.15242	943	7.7	2.3	-3.31	-4.16
944	12.1204	16.0777	21.22677	944	7.74	2.35	-3.3	-4.17
945	12.13712	16.06081	21.22677	945	7.73	2.35	-3.31	-4.15
946	12.17057	16.02703	21.18959	946	7.73	2.42	-3.31	-4.18
947	12.18729	16.04392	21.20818	947	7.74	2.42	-3.31	-4.2
948	12.17057	16.0777	21.20818	948	7.77	2.42	-3.3	-4.2
949	12.1204	16.0777	21.18959	949	7.79	2.38	-3.3	-4.19
950	12.10368	16.12838	21.18959	950	7.76	2.32	-3.3	-4.16
951	12.13712	16.11149	21.18959	951	7.78	2.31	-3.31	-4.14
952	12.17057	16.02703	21.15242	952	7.71	2.37	-3.31	-4.17
953	12.13712	16.02703	21.18959	953	7.72	2.36	-3.31	-4.18
954	12.18729	16.04392	21.22677	954	7.78	2.39	-3.3	-4.2
955	12.17057	16.06081	21.20818	955	7.74	2.38	-3.31	-4.22
956	12.15385	16.0777	21.24535	956	7.73	2.36	-3.31	-4.21
957	12.07023	16.04392	21.26394	957	7.73	2.35	-3.3	-4.23
958	12.03679	16.04392	21.22677	958	7.7	2.38	-3.3	-4.23
959	12.03679	16.04392	21.20818	959	7.7	2.32	-3.3	-4.2
960	12.07023	16.02703	21.20818	960	7.75	2.38	-3.3	-4.22
961	12.13712	15.99324	21.26394	961	7.73	2.35	-3.3	-4.21
962	12.15385	16.04392	21.26394	962	7.7	2.35	-3.3	-4.2
963	12.17057	16.02703	21.28253	963	7.74	2.35	-3.3	-4.16
964	12.15385	16.01014	21.26394	964	7.74	2.41	-3.3	-4.2
965	12.15385	16.06081	21.24535	965	7.76	2.36	-3.3	-4.19
966	12.15385	16.0777	21.24535	966	7.76	2.38	-3.29	-4.21
967	12.18729	16.11149	21.22677	967	7.77	2.37	-3.29	-4.23
968	12.18729	16.0777	21.20818	968	7.74	2.35	-3.29	-4.22

969	12.18729	16.06081	21.171	969	7.76	2.33	-3.3	-4.2
970	12.17057	16.01014	21.15242	970	7.68	2.28	-3.29	-4.16
971	12.18729	16.02703	21.171	971	7.71	2.35	-3.29	-4.2
972	12.17057	16.06081	21.18959	972	7.72	2.36	-3.29	-4.22
973	12.20401	16.0777	21.24535	973	7.7	2.35	-3.29	-4.21
974	12.22074	16.09459	21.26394	974	7.72	2.35	-3.29	-4.2
975	12.18729	16.04392	21.26394	975	7.79	2.38	-3.29	-4.21
976	12.18729	16.04392	21.24535	976	7.73	2.34	-3.29	-4.21
977	12.23746	16.0777	21.24535	977	7.76	2.33	-3.3	-4.2
978	12.25418	16.0777	21.20818	978	7.76	2.36	-3.3	-4.21
979	12.22074	16.06081	21.171	979	7.74	2.38	-3.28	-4.21
980	12.23746	16.06081	21.15242	980	7.76	2.34	-3.29	-4.17
981	12.23746	16.06081	21.15242	981	7.74	2.3	-3.29	-4.15
982	12.22074	16.04392	21.15242	982	7.74	2.37	-3.29	-4.18
983	12.18729	16.09459	21.15242	983	7.74	2.36	-3.29	-4.19
984	12.20401	16.0777	21.20818	984	7.76	2.32	-3.29	-4.18
985	12.18729	16.09459	21.26394	985	7.68	2.3	-3.29	-4.16
986	12.20401	16.0777	21.20818	986	7.72	2.32	-3.29	-4.17
987	12.18729	16.09459	21.171	987	7.73	2.36	-3.3	-4.18
988	12.18729	16.11149	21.171	988	7.7	2.4	-3.29	-4.19
989	12.20401	16.0777	21.20818	989	7.78	2.37	-3.28	-4.21
990	12.18729	16.0777	21.20818	990	7.78	2.32	-3.28	-4.15
991	12.17057	16.06081	21.22677	991	7.75	2.37	-3.28	-4.16
992	12.13712	16.0777	21.18959	992	7.76	2.35	-3.28	-4.17
993	12.18729	16.0777	21.18959	993	7.7	2.36	-3.29	-4.15
994	12.18729	16.11149	21.18959	994	7.75	2.35	-3.29	-4.16
995	12.20401	16.0777	21.24535	995	7.73	2.4	-3.28	-4.19
996	12.17057	16.12838	21.24535	996	7.77	2.37	-3.28	-4.19
997	12.18729	16.09459	21.24535	997	7.77	2.36	-3.28	-4.18
998	12.17057	16.09459	21.22677	998	7.77	2.35	-3.28	-4.16
999	12.18729	16.09459	21.18959	999	7.76	2.38	-3.28	-4.18
1000	12.20401	16.0777	21.20818	1000	7.73	2.37	-3.28	-4.18
1001	12.18729	16.0777	21.18959	1001	7.75	2.36	-3.28	-4.16
1002	12.15385	16.04392	21.11524	1002	7.72	2.35	-3.29	-4.18
1003	12.17057	16.06081	21.18959	1003	7.7	2.3	-3.29	-4.14
1004	12.07023	15.875	21.07807	1004	7.72	2.33	-3.29	-4.12
1005	11.78595	15.63851	20.89219	1005	7.71	2.32	-3.28	-4.12
1006	11.55184	15.55405	20.70632	1006	7.73	2.34	-3.28	-4.15
1007	11.48495	15.62162	20.72491	1007	7.73	2.38	-3.28	-4.2
1008	11.50167	15.68919	20.79926	1008	7.76	2.37	-3.28	-4.2
1009	11.60201	15.84122	20.87361	1009	7.72	2.35	-3.28	-4.21
1010	11.71906	15.875	20.98513	1010	7.76	2.35	-3.28	-4.19
1011	11.8194	15.94257	21.0223	1011	7.73	2.32	-3.28	-4.18
1012	11.90301	15.94257	21.0223	1012	7.71	2.35	-3.28	-4.2
1013	11.98662	16.02703	20.98513	1013	7.76	2.34	-3.28	-4.19

1014	12.00334	16.02703	21.00372	1014	7.74	2.38	-3.28	-4.21
1015	12.05351	16.01014	21.05948	1015	7.76	2.39	-3.28	-4.21
1016	12.03679	16.02703	21.15242	1016	7.77	2.33	-3.28	-4.2
1017	12.07023	16.04392	21.13383	1017	7.76	2.32	-3.27	-4.17
1018	12.10368	16.01014	21.15242	1018	7.73	2.33	-3.27	-4.17
1019	12.17057	16.04392	21.20818	1019	7.77	2.38	-3.27	-4.2
1020	12.13712	16.04392	21.20818	1020	7.74	2.37	-3.27	-4.21
1021	12.18729	16.02703	21.20818	1021	7.75	2.34	-3.27	-4.2
1022	12.17057	16.02703	21.171	1022	7.75	2.34	-3.27	-4.18
1023	12.13712	16.01014	21.13383	1023	7.74	2.35	-3.27	-4.2
1024	12.15385	16.04392	21.15242	1024	7.77	2.35	-3.27	-4.18
1025	12.15385	16.06081	21.13383	1025	7.78	2.37	-3.27	-4.18
1026	12.22074	16.02703	21.18959	1026	7.76	2.37	-3.27	-4.19
1027	12.17057	16.02703	21.20818	1027	7.76	2.33	-3.27	-4.17
1028	12.17057	16.06081	21.171	1028	7.76	2.3	-3.27	-4.13
1029	12.15385	16.0777	21.15242	1029	7.79	2.31	-3.26	-4.11
1030	12.15385	16.06081	21.15242	1030	7.76	2.33	-3.27	-4.14
1031	12.20401	16.01014	21.13383	1031	7.78	2.35	-3.27	-4.15
1032	12.20401	16.04392	21.20818	1032	7.75	2.35	-3.28	-4.16
1033	12.22074	16.0777	21.18959	1033	7.77	2.38	-3.27	-4.17
1034	12.20401	16.12838	21.171	1034	7.76	2.38	-3.26	-4.16
1035	12.22074	16.12838	21.18959	1035	7.76	2.39	-3.26	-4.17
1036	12.25418	16.0777	21.20818	1036	7.78	2.36	-3.26	-4.16
1037	12.22074	16.0777	21.15242	1037	7.78	2.35	-3.27	-4.15
1038	12.23746	16.0777	21.22677	1038	7.76	2.38	-3.27	-4.17
1039	12.18729	16.06081	21.26394	1039	7.77	2.36	-3.28	-4.18
1040	12.20401	16.06081	21.20818	1040	7.76	2.33	-3.27	-4.16
1041	12.18729	16.04392	21.22677	1041	7.75	2.35	-3.27	-4.17
1042	11.95318	15.68919	21.00372	1042	7.77	2.35	-3.27	-4.15
1043	11.53512	15.30068	20.66914	1043	7.67	2.37	-3.26	-4.23
1044	11.21739	15.18243	20.50186	1044	7.65	2.35	-3.25	-4.19
1045	11.16722	15.30068	20.53903	1045	7.73	2.34	-3.24	-4.17
1046	11.25084	15.53716	20.5948	1046	7.76	2.4	-3.24	-4.2
1047	11.40134	15.65541	20.70632	1047	7.75	2.32	-3.25	-4.16
1048	11.50167	15.72297	20.85502	1048	7.78	2.34	-3.24	-4.15
1049	11.60201	15.79054	20.96654	1049	7.71	2.4	-3.25	-4.18
1050	11.71906	15.85811	21.04089	1050	7.73	2.34	-3.25	-4.18
1051	11.85284	15.89189	21.04089	1051	7.75	2.31	-3.25	-4.14
1052	11.90301	15.95946	21.04089	1052	7.73	2.33	-3.26	-4.14
1053	11.91973	15.97635	21.04089	1053	7.74	2.32	-3.26	-4.13
1054	11.93645	15.99324	21.13383	1054	7.74	2.36	-3.26	-4.16
1055	11.98662	16.01014	21.11524	1055	7.72	2.37	-3.26	-4.19
1056	12.00334	15.99324	21.13383	1056	7.72	2.33	-3.26	-4.16
1057	12.07023	16.06081	21.13383	1057	7.72	2.34	-3.26	-4.17
1058	12.08696	15.99324	21.15242	1058	7.77	2.36	-3.26	-4.17

1059	12.07023	15.97635	21.18959	1059	7.76	2.34	-3.26	-4.17
1060	12.10368	15.99324	21.20818	1060	7.73	2.32	-3.26	-4.16
1061	12.07023	16.04392	21.13383	1061	7.77	2.36	-3.26	-4.2
1062	12.07023	16.02703	21.15242	1062	7.74	2.33	-3.26	-4.2
1063	12.13712	16.02703	21.15242	1063	7.71	2.32	-3.26	-4.17
1064	12.17057	16.06081	21.13383	1064	7.72	2.32	-3.25	-4.15
1065	12.13712	16.04392	21.13383	1065	7.74	2.33	-3.25	-4.16
1066	12.10368	16.04392	21.13383	1066	7.72	2.36	-3.26	-4.18
1067	12.1204	15.99324	21.04089	1067	7.73	2.33	-3.25	-4.17
1068	12.15385	15.94257	21.09665	1068	7.73	2.35	-3.25	-4.17
1069	12.1204	15.95946	21.13383	1069	7.74	2.32	-3.25	-4.14
1070	12.10368	15.95946	21.11524	1070	7.75	2.34	-3.25	-4.17
1071	12.08696	16.01014	21.11524	1071	7.73	2.36	-3.25	-4.17
1072	12.1204	15.99324	21.13383	1072	7.74	2.34	-3.25	-4.15
1073	12.1204	16.01014	21.18959	1073	7.74	2.32	-3.25	-4.16
1074	12.15385	15.99324	21.18959	1074	7.71	2.33	-3.26	-4.17
1075	12.22074	16.01014	21.18959	1075	7.71	2.34	-3.25	-4.15
1076	12.22074	16.06081	21.18959	1076	7.7	2.33	-3.25	-4.17
1077	12.18729	16.02703	21.20818	1077	7.72	2.3	-3.25	-4.15
1078	12.17057	16.06081	21.171	1078	7.74	2.32	-3.25	-4.15
1079	12.18729	16.06081	21.18959	1079	7.74	2.33	-3.25	-4.14
1080	12.17057	16.06081	21.20818	1080	7.73	2.37	-3.26	-4.16
1081	12.17057	16.04392	21.11524	1081	7.73	2.38	-3.26	-4.2
1082	12.17057	16.02703	21.11524	1082	7.76	2.37	-3.25	-4.19
1083	12.20401	16.06081	21.15242	1083	7.74	2.34	-3.25	-4.19
1084	12.22074	16.04392	21.15242	1084	7.75	2.35	-3.25	-4.17
1085	12.18729	16.02703	21.09665	1085	7.71	2.32	-3.25	-4.13
1086	12.13712	16.0777	21.15242	1086	7.72	2.36	-3.25	-4.16
1087	12.1204	16.09459	21.171	1087	7.73	2.34	-3.25	-4.17
1088	12.13712	16.06081	21.171	1088	7.72	2.31	-3.26	-4.14
1089	12.17057	16.02703	21.171	1089	7.73	2.31	-3.26	-4.14
1090	12.23746	16.04392	21.15242	1090	7.73	2.3	-3.27	-4.14
1091	11.93645	15.77365	21.00372	1091	7.71	2.32	-3.26	-4.14
1092	11.10033	15.25	20.72491	1092	7.65	2.37	-3.25	-4.15
1093	10.14716	14.74324	20.27881	1093	7.59	2.43	-3.24	-4.16
1094	9.561873	14.37162	19.8513	1094	7.69	2.37	-3.23	-4.16
1095	9.12709	14.11824	19.60967	1095	7.72	2.4	-3.22	-4.19
1096	8.792642	13.98311	19.46097	1096	7.65	2.39	-3.21	-4.19
1097	8.625418	13.94932	19.36803	1097	7.68	2.39	-3.21	-4.2
1098	8.541806	13.96622	19.34944	1098	7.56	2.42	-3.21	-4.22
1099	8.508361	14.03378	19.33086	1099	7.65	2.4	-3.2	-4.2
1100	8.558528	14.21959	19.34944	1100	7.61	2.42	-3.2	-4.19
1101	8.64214	14.38851	19.51673	1101	7.62	2.41	-3.2	-4.2
1102	8.842809	14.54054	19.64684	1102	7.69	2.36	-3.2	-4.19
1103	9.076923	14.70946	19.73978	1103	7.68	2.35	-3.2	-4.15

1104	9.26087	14.76014	19.73978	1104	7.69	2.38	-3.21	-4.19
1105	9.361204	14.8277	19.8513	1105	7.7	2.4	-3.21	-4.18
1106	9.428094	14.89527	19.92565	1106	7.7	2.33	-3.21	-4.16
1107	9.511706	14.97973	19.96283	1107	7.65	2.41	-3.22	-4.17
1108	9.595318	14.96284	19.98141	1108	7.69	2.37	-3.22	-4.17
1109	9.662207	14.96284	20.03717	1109	7.7	2.36	-3.22	-4.19
1110	9.67893	14.89527	20.09294	1110	7.7	2.38	-3.22	-4.18
1111	9.729097	14.97973	20.11152	1111	7.68	2.39	-3.22	-4.21
1112	9.745819	15.01351	20.20446	1112	7.7	2.39	-3.22	-4.19
1113	9.779264	15.03041	20.18587	1113	7.67	2.33	-3.22	-4.13
1114	9.795987	15.0473	20.18587	1114	7.67	2.35	-3.23	-4.13
1115	9.762542	15.03041	20.20446	1115	7.69	2.38	-3.23	-4.15
1116	9.829431	15.01351	20.13011	1116	7.73	2.42	-3.23	-4.18
1117	9.846154	15.09797	20.1487	1117	7.75	2.38	-3.23	-4.18
1118	9.829431	15.13176	20.22305	1118	7.66	2.44	-3.23	-4.19
1119	9.846154	15.0473	20.22305	1119	7.69	2.39	-3.23	-4.18
1120	9.879599	15.03041	20.22305	1120	7.7	2.4	-3.23	-4.16
1121	9.879599	15.08108	20.24164	1121	7.73	2.38	-3.23	-4.17
1122	9.929766	15.11486	20.27881	1122	7.67	2.43	-3.23	-4.2
1123	9.879599	15.09797	20.27881	1123	7.66	2.42	-3.22	-4.18
1124	9.913043	15.13176	20.22305	1124	7.6	2.47	-3.23	-4.21
1125	9.929766	15.09797	20.16729	1125	7.74	2.42	-3.22	-4.2
1126	9.946488	15.16554	20.24164	1126	7.62	2.44	-3.23	-4.19
1127	9.963211	15.16554	20.31599	1127	7.67	2.43	-3.23	-4.2
1128	9.996656	15.11486	20.22305	1128	7.73	2.38	-3.23	-4.2
1129	9.963211	15.08108	20.20446	1129	7.68	2.42	-3.22	-4.18
1130	9.963211	15.09797	20.2974	1130	7.66	2.42	-3.22	-4.19
1131	10.0301	15.14865	20.27881	1131	7.66	2.39	-3.22	-4.18
1132	10.06355	15.19932	20.26022	1132	7.7	2.39	-3.22	-4.17
1133	10.14716	15.16554	20.2974	1133	7.72	2.4	-3.23	-4.17
1134	10.14716	15.16554	20.2974	1134	7.72	2.42	-3.23	-4.19
1135	10.11371	15.13176	20.26022	1135	7.71	2.38	-3.23	-4.19
1136	10.14716	15.13176	20.2974	1136	7.68	2.41	-3.23	-4.2
1137	10.19732	15.19932	20.33457	1137	7.67	2.38	-3.24	-4.2
1138	10.26421	15.23311	20.31599	1138	7.7	2.38	-3.24	-4.2
1139	10.29766	15.23311	20.33457	1139	7.62	2.33	-3.24	-4.17
1140	10.29766	15.21622	20.2974	1140	7.69	2.32	-3.24	-4.15
1141	10.29766	15.16554	20.35316	1141	7.7	2.33	-3.25	-4.15
1142	10.1806	14.94595	20.24164	1142	7.75	2.35	-3.24	-4.16
1143	10.01338	14.76014	20.05576	1143	7.67	2.32	-3.25	-4.1
1144	9.946488	14.81081	19.96283	1144	7.7	2.33	-3.25	-4.14

Deli_exp_12

Experiment type: Deliquescence experiment. The regolith type is JSC Mars-1 in this experiment, with a thickness of 2 cm. The initial weight was 157.68 g. 18 wt% of calcium perchlorate was added increasing the mass to 186.14 g. The humidity buffer was LiCl which has a RH of 11.31 at 0 degrees Celsius. Chiller was set to -20°C. Temperature around the sample was controlled by the chiller.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= humidity buffer 3= atmosphere 4= sample

Mass		RH				T				
Min.	Mass	Min.	Ch02	Ch03	Ch04	Min.	Ch01	Ch02	Ch03	Ch04
0	186.35	0	3.173913	2.074324	16.63569	0	2.41	-5.08	-9.17	-11.5
2	185.76	1	3.22408	1.591216	16.59851	1	-4.52	-7.09	-9.52	-11.78
4	184.81	2	2.939799	7.418919	17.0632	2	-6.89	-7.8	-9.46	-13.02
6	184.52	3	2.053512	10.27365	17.60223	3	-6.4	-6.85	-9.33	-12.76
8	184.44	4	0.682274	11.74324	17.73234	4	-4.44	-6.32	-9.2	-12.17
10	184.44	5	0.622074	10.64527	17.71375	5	-3.29	-6.01	-9.07	-11.55
12	184.44	6	1.909699	8.331081	17.65799	6	-2.27	-5.39	-8.92	-10.22
14	184.44	7	2.979933	4.175676	17.60223	7	3.27	-4.74	-8.76	-9.77
16	184.44	8	3.51505	0.182432	17.60223	8	0.7	-4.27	-8.63	-9.52
18	184.44	9	3.51505	3.341216	17.65799	9	-2	-3.96	-8.52	-9.31
20	184.44	10	2.946488	5.706081	17.75093	10	-2	-3.71	-8.44	-9.07
22	184.45	11	1.658863	7.581081	17.9368	11	-2.2	-3.49	-8.37	-8.9
24	184.45	12	0.214047	9.118243	18.12268	12	-2.11	-3.3	-8.31	-8.82
26	184.45	13	2.187291	10.46959	18.36431	13	-1.75	-3.1	-8.26	-8.74
28	184.45	14	3.926421	11.60135	18.5316	14	-1.42	-2.91	-8.2	-8.63
30	184.45	15	5.314381	12.53041	18.60595	15	-2.34	-2.75	-8.13	-8.55
32	184.45	16	6.451505	13.25676	18.66171	16	-2	-2.6	-8.06	-8.48
34	184.46	17	7.337793	13.86486	18.79182	17	-1.97	-2.44	-7.99	-8.42
36	184.46	18	8.123746	14.33784	18.88476	18	-1.38	-2.3	-7.93	-8.35
38	184.46	19	8.842809	14.72635	18.95911	19	-0.7	-2.18	-7.86	-8.26
40	184.46	20	9.444816	15.08108	18.95911	20	-1.05	-2.07	-7.79	-8.21
42	184.46	21	9.913043	15.35135	19.07063	21	-1.9	-1.97	-7.73	-8.24
44	184.46	22	10.31438	15.55405	19.20074	22	-1.8	-1.86	-7.66	-8.2
46	184.46	23	10.68227	15.72297	19.31227	23	-1.63	-1.78	-7.6	-8.17
48	184.47	24	11.01672	15.92568	19.36803	24	-1.55	-1.68	-7.55	-8.15
50	184.47	25	11.35117	16.0777	19.4052	25	-1.65	-1.59	-7.47	-8.08
52	184.47	26	11.61873	16.19595	19.47955	26	-1.82	-1.52	-7.42	-8.06
54	184.47	27	11.85284	16.34797	19.5539	27	-1.59	-1.44	-7.36	-8.06

56	184.47	28	12.07023	16.51689	19.7026	28	-1.5	-1.35	-7.3	-7.98
58	184.47	29	12.25418	16.60135	19.75836	29	-1.54	-1.28	-7.24	-7.93
60	184.48	30	12.38796	16.61824	19.88848	30	-1.47	-1.22	-7.18	-7.85
62	184.48	31	12.48829	16.63514	20.09294	31	-1.47	-1.14	-7.12	-7.82
64	184.48	32	12.57191	16.71959	20.16729	32	-0.85	-1.07	-7.06	-7.78
66	184.48	33	12.70569	16.75338	20.2974	33	-0.57	-1.01	-7.01	-7.74
68	184.48	34	12.80602	16.78716	20.4461	34	-0.03	-0.95	-6.95	-7.72
70	184.49	35	12.9398	16.85473	20.52045	35	-0.58	-0.9	-6.91	-7.7
72	184.49	36	13.04013	16.87162	20.70632	36	-0.13	-0.83	-6.86	-7.62
74	184.49	37	13.04013	16.9223	20.91078	37	-0.94	-0.79	-6.81	-7.59
76	184.49	38	13.14047	16.97297	21.07807	38	-0.7	-0.74	-6.77	-7.57
78	184.49	39	13.25753	16.9223	21.20818	39	-1.64	-0.68	-6.73	-7.54
80	184.49	40	13.34114	16.97297	21.26394	40	-1.19	-0.64	-6.69	-7.51
82	184.5	41	13.40803	16.98986	21.35688	41	-0.99	-0.6	-6.65	-7.46
84	184.5	42	13.47492	16.98986	21.4684	42	-1.26	-0.56	-6.61	-7.46
86	184.5	43	13.49164	17.04054	21.56134	43	-0.6	-0.52	-6.56	-7.45
88	184.5	44	13.50836	17.04054	21.69145	44	-1.27	-0.47	-6.53	-7.4
90	184.5	45	13.55853	17.07432	21.74721	45	-1.04	-0.43	-6.49	-7.39
92	184.51	46	13.54181	17.09122	21.72862	46	-1.61	-0.39	-6.45	-7.38
94	184.51	47	13.57525	17.125	21.7658	47	-1.51	-0.35	-6.42	-7.33
96	184.52	48	13.55853	17.10811	21.87732	48	-0.38	-0.31	-6.38	-7.34
98	184.52	49	13.57525	17.125	21.93309	49	-0.98	-0.29	-6.35	-7.33
100	184.53	50	13.59197	17.05743	21.98885	50	-0.37	-0.25	-6.32	-7.29
102	184.53	51	13.6087	17.07432	21.98885	51	-0.36	-0.2	-6.27	-7.23
104	184.54	52	13.6087	17.09122	22.00743	52	-0.86	-0.18	-6.25	-7.23
106	184.54	53	13.57525	17.09122	22.11896	53	-0.28	-0.13	-6.21	-7.2
108	184.54	54	13.54181	17.07432	22.17472	54	0.03	-0.1	-6.18	-7.18
110	184.55	55	13.42475	17.05743	22.2119	55	0.01	-0.07	-6.15	-7.17
112	184.55	56	13.34114	17.02365	22.23048	56	-0.34	-0.04	-6.11	-7.17
114	184.55	57	13.35786	17.07432	22.19331	57	-0.1	-0.01	-6.08	-7.12
116	184.55	58	13.37458	17.09122	22.23048	58	-0.22	0.01	-6.06	-7.11
118	184.56	59	13.30769	17.07432	22.30483	59	0	0.04	-6.03	-7.1
120	184.56	60	13.25753	17.05743	22.32342	60	-0.17	0.07	-6.01	-7.11
122	184.56	61	13.19064	17.04054	22.30483	61	-0.59	0.1	-5.98	-7.1
124	184.57	62	13.17391	17.04054	22.30483	62	0.23	0.13	-5.94	-7.06
126	184.57	63	13.22408	17.09122	22.39777	63	-1.22	0.15	-5.92	-7.02
128	184.57	64	13.29097	17.09122	22.39777	64	-0.76	0.17	-5.89	-7.02
130	184.57	65	13.22408	17.02365	22.36059	65	0.1	0.2	-5.86	-6.98
132	184.58	66	13.19064	17.04054	22.34201	66	-0.24	0.23	-5.84	-6.99
134	184.58	67	13.17391	17.05743	22.37918	67	-0.8	0.26	-5.8	-6.94
136	184.58	68	13.15719	17.05743	22.43494	68	-0.68	0.29	-5.78	-6.95
138	184.59	69	13.17391	17.02365	22.43494	69	0.27	0.3	-5.76	-6.93
140	184.59	70	13.17391	17.07432	22.43494	70	0.33	0.33	-5.74	-6.92
142	184.59	71	13.22408	17.07432	22.41636	71	0.09	0.34	-5.71	-6.89
144	184.59	72	13.27425	17.04054	22.43494	72	-0.24	0.37	-5.69	-6.85

146	184.6	73	13.29097	17.02365	22.45353	73	0.09	0.39	-5.67	-6.86
148	184.6	74	13.2408	17.02365	22.49071	74	-0.09	0.41	-5.64	-6.87
150	184.6	75	13.22408	17.00676	22.45353	75	-0.59	0.43	-5.62	-6.81
152	184.6	76	13.19064	16.98986	22.47212	76	0.27	0.47	-5.59	-6.82
154	184.61	77	13.20736	16.97297	22.50929	77	0.09	0.48	-5.57	-6.81
156	184.61	78	13.22408	16.93919	22.52788	78	0.53	0.51	-5.55	-6.76
158	184.61	79	13.20736	16.98986	22.49071	79	0.3	0.52	-5.52	-6.75
160	184.61	80	13.15719	16.93919	22.52788	80	0.28	0.54	-5.5	-6.74
162	184.62	81	13.15719	16.95608	22.50929	81	0.61	0.57	-5.48	-6.77
164	184.62	82	13.17391	16.95608	22.50929	82	0.29	0.59	-5.46	-6.73
166	184.62	83	13.19064	16.9223	22.54647	83	-0.19	0.6	-5.43	-6.67
168	184.62	84	13.19064	17.02365	22.52788	84	-0.29	0.62	-5.41	-6.69
170	184.62	85	13.25753	17.04054	22.50929	85	-0.3	0.63	-5.39	-6.68
172	184.63	86	13.25753	16.97297	22.50929	86	0.92	0.66	-5.37	-6.65
174	184.63	87	13.29097	16.95608	22.50929	87	0.93	0.69	-5.34	-6.61
176	184.63	88	13.25753	16.9223	22.56506	88	0.68	0.7	-5.32	-6.58
178	184.63	89	13.25753	16.93919	22.54647	89	0.13	0.72	-5.29	-6.57
180	184.64	90	13.27425	16.93919	22.58364	90	0.58	0.74	-5.28	-6.55
182	184.64	91	13.27425	16.9223	22.60223	91	1.46	0.78	-5.26	-6.57
184	184.64	92	13.34114	16.95608	22.58364	92	0.33	0.78	-5.24	-6.53
186	184.64	93	13.37458	16.95608	22.52788	93	1.86	0.85	-5.21	-6.44
188	184.65	94	13.2408	16.61824	22.52788	94	2.77	0.87	-5.17	-6.33
190	184.65	95	12.68896	15.89189	22.43494	95	0.77	0.86	-5.14	-6.41
192	184.65	96	11.90301	15.18243	22.28625	96	0.45	0.88	-5.11	-6.44
194	184.65	97	11.23411	14.79392	22.19331	97	0.41	0.89	-5.09	-6.48
196	184.66	98	10.71572	14.67568	22.08178	98	0.85	0.91	-5.07	-6.46
198	184.66	99	10.36455	14.72635	21.97026	99	0.86	0.93	-5.05	-6.44
200	184.66	100	10.1806	14.89527	21.93309	100	0.59	0.95	-5.02	-6.38
202	184.66	101	10.14716	15.0473	21.93309	101	0.9	0.97	-5.02	-6.39
204	184.66	102	10.16388	15.23311	21.87732	102	0.69	0.98	-5.01	-6.4
206	184.67	103	10.26421	15.30068	21.85874	103	1.04	1	-4.99	-6.36
208	184.67	104	10.34783	15.30068	21.9145	104	0.37	1.01	-4.98	-6.37
210	184.67	105	10.39799	15.33446	22.00743	105	0.72	1.03	-4.97	-6.36
212	184.67	106	10.48161	15.43581	21.98885	106	0.81	1.05	-4.96	-6.35
214	184.67	107	10.58194	15.62162	21.93309	107	0.36	1.06	-4.94	-6.33
216	184.67	108	10.74916	15.73986	21.97026	108	0.76	1.08	-4.93	-6.3
218	184.68	109	10.91639	15.875	22.00743	109	0.86	1.09	-4.91	-6.3
220	184.68	110	11.03344	15.92568	21.98885	110	1.12	1.12	-4.89	-6.27
222	184.68	111	11.1505	15.95946	22.02602	111	0.9	1.13	-4.87	-6.26
224	184.68	112	11.28428	15.95946	22.08178	112	1.42	1.15	-4.86	-6.22
226	184.68	113	11.41806	15.95946	22.11896	113	0.76	1.17	-4.84	-6.2
228	184.69	114	11.43478	16.01014	22.13755	114	1.17	1.19	-4.83	-6.17
230	184.69	115	11.50167	16.02703	22.10037	115	1.46	1.21	-4.81	-6.17
232	184.69	116	11.55184	16.01014	22.08178	116	2.2	1.22	-4.79	-6.14
234	184.69	117	11.51839	16.0777	22.11896	117	1.38	1.23	-4.78	-6.09

236	184.69	118	11.51839	16.06081	22.10037	118	2.33	1.25	-4.77	-6.11
238	184.7	119	11.55184	16.06081	22.04461	119	1.67	1.26	-4.75	-6.06
240	184.7	120	11.58528	16.02703	22.15613	120	1.99	1.28	-4.73	-6.07
242	184.7	121	11.63545	16.02703	22.11896	121	2.16	1.29	-4.72	-6.05
244	184.7	122	11.63545	16.06081	22.15613	122	2.31	1.31	-4.7	-6.04
246	184.7	123	11.61873	16.11149	22.15613	123	1.66	1.31	-4.68	-6.04
248	184.7	124	11.61873	16.11149	22.10037	124	1.92	1.32	-4.67	-6
250	184.71	125	11.60201	16.16216	22.15613	125	1.72	1.34	-4.65	-5.98
252	184.71	126	11.63545	16.11149	22.13755	126	1.39	1.34	-4.64	-5.94
254	184.71	127	11.65217	16.09459	22.11896	127	0.98	1.35	-4.62	-5.96
256	184.71	128	11.70234	16.04392	22.15613	128	1.99	1.37	-4.61	-5.93
258	184.71	129	11.73579	16.09459	22.19331	129	1.47	1.38	-4.59	-5.91
260	184.72	130	11.71906	16.11149	22.17472	130	1.57	1.39	-4.58	-5.89
262	184.72	131	11.71906	16.06081	22.17472	131	2.26	1.4	-4.57	-5.91
264	184.72	132	11.71906	16.06081	22.19331	132	2.28	1.42	-4.55	-5.89
266	184.72	133	11.71906	16.11149	22.19331	133	1.52	1.42	-4.54	-5.88
268	184.72	134	11.71906	16.14527	22.17472	134	2.07	1.43	-4.52	-5.86
270	184.73	135	11.70234	16.09459	22.13755	135	1.14	1.44	-4.5	-5.84
272	184.73	136	11.70234	16.09459	22.17472	136	1.32	1.45	-4.49	-5.8
274	184.73	137	11.76923	16.16216	22.13755	137	1.55	1.47	-4.47	-5.81
276	184.73	138	11.71906	16.14527	22.15613	138	1.14	1.47	-4.45	-5.79
278	184.73	139	11.75251	16.11149	22.15613	139	2.04	1.49	-4.44	-5.81
280	184.73	140	11.76923	16.12838	22.17472	140	2.08	1.51	-4.42	-5.75
282	184.74	141	11.73579	16.14527	22.17472	141	1.19	1.51	-4.41	-5.74
284	184.74	142	11.76923	16.16216	22.13755	142	2.49	1.53	-4.4	-5.74
286	184.74	143	11.83612	16.16216	22.17472	143	0.65	1.53	-4.38	-5.7
288	184.74	144	11.85284	16.12838	22.2119	144	1.02	1.53	-4.38	-5.71
290	184.74	145	11.85284	16.09459	22.23048	145	0.85	1.54	-4.36	-5.71
292	184.75	146	11.85284	16.0777	22.19331	146	1.83	1.56	-4.35	-5.71
294	184.75	147	11.83612	16.12838	22.19331	147	2.3	1.56	-4.34	-5.69
296	184.75	148	11.85284	16.14527	22.26766	148	1.89	1.58	-4.32	-5.69
298	184.75	149	11.91973	16.12838	22.2119	149	1.23	1.58	-4.31	-5.65
300	184.75	150	11.91973	16.19595	22.23048	150	1.8	1.59	-4.31	-5.63
302	184.75	151	11.93645	16.21284	22.26766	151	1.68	1.6	-4.29	-5.6
304	184.76	152	11.9699	16.24662	22.24907	152	2.09	1.62	-4.28	-5.6
306	184.76	153	11.90301	16.17905	22.24907	153	2.48	1.64	-4.25	-5.57
308	184.76	154	11.85284	16.0777	22.30483	154	2.11	1.64	-4.24	-5.59
310	184.76	155	11.83612	16.14527	22.23048	155	2.47	1.65	-4.23	-5.54
312	184.76	156	11.90301	16.19595	22.24907	156	2.07	1.66	-4.22	-5.52
314	184.76	157	11.93645	16.22973	22.23048	157	2.04	1.66	-4.21	-5.54
316	184.77	158	11.93645	16.31419	22.2119	158	1.94	1.67	-4.2	-5.52
318	184.77	159	11.95318	16.2973	22.26766	159	2.22	1.68	-4.19	-5.49
320	184.77	160	11.95318	16.24662	22.24907	160	1.85	1.68	-4.18	-5.48
322	184.77	161	11.9699	16.22973	22.26766	161	1.92	1.69	-4.17	-5.5
324	184.77	162	11.93645	16.24662	22.30483	162	1.71	1.7	-4.15	-5.47

326	184.78	163	11.91973	16.24662	22.28625	163	2.23	1.71	-4.14	-5.44
328	184.78	164	11.9699	16.2973	22.24907	164	2.62	1.73	-4.12	-5.42
330	184.78	165	11.98662	16.34797	22.24907	165	2.78	1.74	-4.11	-5.4
332	184.78	166	12.02007	16.28041	22.30483	166	2.33	1.75	-4.1	-5.41
334	184.78	167	12.08696	16.28041	22.28625	167	1.83	1.74	-4.09	-5.39
336	184.78	168	12.10368	16.28041	22.28625	168	1.29	1.74	-4.08	-5.38
338	184.79	169	12.1204	16.28041	22.32342	169	2.32	1.76	-4.06	-5.35
340	184.79	170	12.13712	16.28041	22.30483	170	2.6	1.78	-4.05	-5.29
342	184.79	171	12.08696	16.28041	22.26766	171	2.72	1.79	-4.04	-5.28
344	184.79	172	12.10368	16.22973	22.24907	172	1.57	1.77	-4.04	-5.29
346	184.79	173	12.10368	16.21284	22.28625	173	0.73	1.77	-4.03	-5.32
348	184.79	174	12.13712	16.26351	22.28625	174	1.03	1.77	-4.02	-5.29
350	184.8	175	12.15385	16.28041	22.24907	175	2.05	1.8	-4.01	-5.29
352	184.8	176	12.15385	16.34797	22.23048	176	2.31	1.81	-4	-5.29
354	184.8	177	12.17057	16.36486	22.23048	177	2.26	1.82	-3.99	-5.29
356	184.8	178	12.23746	16.34797	22.28625	178	1.16	1.81	-3.98	-5.28
358	184.8	179	12.23746	16.38176	22.28625	179	1.86	1.83	-3.97	-5.25
360	184.81	180	12.2709	16.34797	22.26766	180	1.91	1.82	-3.96	-5.25
362	184.81	181	12.28763	16.44932	22.24907	181	2.27	1.84	-3.95	-5.25
364	184.81	182	12.2709	16.44932	22.34201	182	3.02	1.86	-3.94	-5.2
366	184.81	183	12.28763	16.48311	22.30483	183	2.44	1.85	-3.93	-5.19
368	184.81	184	12.32107	16.46622	22.30483	184	2.06	1.86	-3.92	-5.18
370	184.81	185	12.35452	16.48311	22.32342	185	1.74	1.87	-3.91	-5.18
372	184.82	186	12.37124	16.44932	22.30483	186	1.77	1.87	-3.89	-5.19
374	184.82	187	12.37124	16.44932	22.32342	187	2.43	1.89	-3.88	-5.14
376	184.82	188	12.37124	16.41554	22.39777	188	2.13	1.9	-3.87	-5.13
378	184.82	189	12.37124	16.41554	22.36059	189	1.39	1.9	-3.86	-5.16
380	184.82	190	12.37124	16.46622	22.26766	190	1.08	1.9	-3.86	-5.14
382	184.82	191	12.43813	16.48311	22.34201	191	1.32	1.9	-3.84	-5.11
384	184.83	192	12.4214	16.51689	22.32342	192	1.8	1.91	-3.83	-5.09
386	184.83	193	12.38796	16.5	22.36059	193	1.13	1.9	-3.83	-5.11
388	184.83	194	12.43813	16.48311	22.36059	194	0.64	1.9	-3.82	-5.1
390	184.83	195	12.43813	16.44932	22.34201	195	1.58	1.92	-3.8	-5.08
392	184.83	196	12.48829	16.5	22.34201	196	1.5	1.93	-3.8	-5.08
394	184.84	197	12.45485	16.51689	22.34201	197	2.72	1.95	-3.78	-5.04
396	184.84	198	12.40468	16.5	22.32342	198	2.28	1.95	-3.78	-5.06
398	184.84	199	12.43813	16.5	22.36059	199	2.85	1.96	-3.77	-5
400	184.84	200	12.52174	16.55068	22.30483	200	2.78	1.96	-3.76	-5
402	184.84	201	12.52174	16.53378	22.30483	201	2.7	1.97	-3.75	-4.96
404	184.84	202	12.52174	16.53378	22.32342	202	2.94	1.98	-3.75	-4.93
406	184.84	203	12.55518	16.53378	22.37918	203	1.79	1.99	-3.74	-4.97
408	184.85	204	12.57191	16.53378	22.47212	204	1.41	1.98	-3.74	-4.97
410	184.85	205	12.60535	16.53378	22.47212	205	2.04	1.98	-3.72	-4.93
412	184.85	206	12.6388	16.61824	22.45353	206	2.34	2	-3.71	-4.95
414	184.85	207	12.68896	16.58446	22.39777	207	2.17	2.01	-3.71	-4.96

416	184.85	208	12.65552	16.55068	22.43494	208	2.59	2.01	-3.7	-4.93
418	184.85	209	12.72241	16.61824	22.47212	209	2.67	2.02	-3.69	-4.94
420	184.86	210	12.72241	16.61824	22.50929	210	2.75	2.02	-3.69	-4.9
422	184.86	211	12.77258	16.65203	22.47212	211	2.42	2.02	-3.68	-4.88
424	184.86	212	12.82274	16.68581	22.50929	212	2.01	2.04	-3.66	-4.86
426	184.86	213	12.82274	16.66892	22.54647	213	2.2	2.05	-3.65	-4.83
428	184.86	214	12.80602	16.65203	22.52788	214	2.25	2.05	-3.64	-4.85
430	184.87	215	12.83946	16.65203	22.49071	215	2.07	2.05	-3.63	-4.84
432	184.87	216	12.82274	16.68581	22.49071	216	2.49	2.06	-3.63	-4.77
434	184.87	217	12.82274	16.71959	22.41636	217	2.88	2.07	-3.62	-4.71
436	184.87	218	12.85619	16.68581	22.37918	218	2.38	2.06	-3.62	-4.68
438	184.87	219	12.88963	16.63514	22.39777	219	1.75	2.07	-3.61	-4.76
440	184.87	220	12.88963	16.7027	22.36059	220	2.57	2.08	-3.6	-4.76
442	184.88	221	12.87291	16.73649	22.47212	221	3.64	2.11	-3.58	-4.64
444	184.88	222	12.87291	16.7027	22.47212	222	2.15	2.1	-3.57	-4.73
446	184.88	223	12.88963	16.68581	22.50929	223	1.57	2.11	-3.55	-4.76
448	184.88	224	12.83946	16.66892	22.45353	224	2.37	2.12	-3.54	-4.73
450	184.88	225	12.85619	16.71959	22.45353	225	1.59	2.1	-3.55	-4.72
452	184.88	226	12.83946	16.73649	22.45353	226	1.67	2.11	-3.54	-4.74
454	184.88	227	12.85619	16.71959	22.47212	227	2.16	2.12	-3.53	-4.73
456	184.89	228	12.88963	16.68581	22.49071	228	2.14	2.13	-3.52	-4.67
458	184.89	229	12.83946	16.71959	22.45353	229	1.96	2.12	-3.52	-4.71
460	184.89	230	12.85619	16.75338	22.45353	230	2.18	2.14	-3.51	-4.61
462	184.89	231	12.85619	16.7027	22.49071	231	3.09	2.16	-3.51	-4.54
464	184.89	232	12.87291	16.71959	22.45353	232	1.94	2.15	-3.5	-4.63
466	184.89	233	12.88963	16.7027	22.49071	233	2.54	2.16	-3.49	-4.59
468	184.9	234	12.88963	16.68581	22.56506	234	2.66	2.16	-3.49	-4.6
470	184.9	235	12.83946	16.65203	22.50929	235	2.43	2.17	-3.47	-4.6
472	184.9	236	12.87291	16.68581	22.47212	236	2.63	2.19	-3.47	-4.57
474	184.9	237	12.87291	16.75338	22.41636	237	2.1	2.18	-3.46	-4.56
476	184.91	238	12.90635	16.73649	22.49071	238	2.75	2.19	-3.45	-4.56
478	184.91	239	12.87291	16.77027	22.50929	239	3.46	2.2	-3.44	-4.45
480	184.92	240	12.85619	16.7027	22.50929	240	2.22	2.2	-3.44	-4.52
482	184.92	241	12.82274	16.7027	22.49071	241	2.43	2.21	-3.43	-4.5
484	184.92	242	12.85619	16.71959	22.52788	242	2.64	2.21	-3.43	-4.53
486	184.92	243	12.87291	16.73649	22.45353	243	4.39	2.23	-3.42	-4.34
488	184.93	244	12.88963	16.66892	22.45353	244	2.82	2.22	-3.42	-4.41
490	184.93	245	12.88963	16.71959	22.45353	245	2.44	2.21	-3.41	-4.47
492	184.93	246	12.88963	16.68581	22.45353	246	5.02	2.26	-3.41	-4.3
494	184.93	247	12.87291	16.66892	22.50929	247	4.09	2.24	-3.4	-4.34
496	184.94	248	12.87291	16.71959	22.50929	248	4.43	2.27	-3.39	-4.29
498	184.94	249	12.85619	16.7027	22.49071	249	3.48	2.28	-3.38	-4.3
500	184.94	250	12.87291	16.66892	22.47212	250	5.45	2.3	-3.38	-4.17
502	184.94	251	12.87291	16.7027	22.45353	251	6.96	2.33	-3.23	-3.99
504	184.94	252	12.83946	16.71959	22.47212	252	3.6	2.29	-3.36	-4.26

506	184.95	253	12.83946	16.73649	22.52788	253	4.42	2.31	-3.36	-4.26
508	184.95	254	12.87291	16.7027	22.54647	254	3.07	2.29	-3.35	-4.34
510	184.95	255	12.83946	16.68581	22.54647	255	2.74	2.3	-3.35	-4.37
512	184.95	256	12.82274	16.7027	22.54647	256	2.82	2.3	-3.35	-4.42
514	184.95	257	12.82274	16.7027	22.54647	257	3.51	2.3	-3.35	-4.35
516	184.96	258	12.83946	16.71959	22.52788	258	4.79	2.33	-3.34	-4.22
518	184.96	259	12.87291	16.71959	22.54647	259	4.02	2.35	-3.33	-4.33
520	184.96	260	12.90635	16.66892	22.56506	260	3.61	2.32	-3.32	-4.39
522	184.96	261	12.88963	16.65203	22.54647	261	1.66	2.3	-3.31	-4.35
524	184.97	262	12.85619	16.7027	22.56506	262	4.84	2.34	-3.3	-4.22
526	184.97	263	12.88963	16.66892	22.56506	263	3.37	2.34	-3.31	-4.26
528	184.97	264	12.82274	16.68581	22.54647	264	2.67	2.33	-3.31	-4.32
530	184.97	265	12.80602	16.68581	22.50929	265	5.59	2.37	-3.3	-4.08
532	184.97	266	12.82274	16.7027	22.52788	266	5.86	2.39	-3.29	-3.99
534	184.98	267	12.85619	16.65203	22.50929	267	6.22	2.41	-3.28	-4.02
536	184.98	268	12.83946	16.66892	22.50929	268	5.08	2.4	-3.27	-4.08
538	184.98	269	12.83946	16.7027	22.54647	269	3.2	2.37	-3.26	-4.15
540	184.98	270	12.88963	16.66892	22.60223	270	3.79	2.38	-3.26	-4.14
542	184.98	271	12.88963	16.68581	22.54647	271	4.42	2.39	-3.25	-4.12
544	184.98	272	12.83946	16.73649	22.52788	272	3.91	2.39	-3.24	-4.12
546	184.99	273	12.83946	16.77027	22.50929	273	2.47	2.36	-3.25	-4.26
548	184.99	274	12.85619	16.77027	22.52788	274	2.23	2.37	-3.25	-4.27
550	184.99	275	12.85619	16.78716	22.47212	275	2.57	2.39	-3.24	-4.29
552	184.99	276	12.83946	16.75338	22.52788	276	2.39	2.37	-3.24	-4.28
554	184.99	277	12.85619	16.71959	22.49071	277	2	2.36	-3.24	-4.27
556	184.99	278	12.82274	16.75338	22.52788	278	3	2.37	-3.24	-4.28
558	185	279	12.82274	16.7027	22.52788	279	2.77	2.38	-3.23	-4.25
560	185	280	12.82274	16.71959	22.52788	280	3.02	2.39	-3.22	-4.28
562	185	281	12.83946	16.71959	22.49071	281	6.47	2.46	-3.21	-3.93
564	185	282	12.83946	16.73649	22.50929	282	6.99	2.45	-3.2	-3.84
566	185	283	12.87291	16.68581	22.49071	283	7.2	2.48	-3.19	-3.81
568	185	284	12.88963	16.71959	22.50929	284	4.72	2.45	-3.18	-3.97
570	185.01	285	12.90635	16.73649	22.49071	285	2.08	2.41	-3.18	-4.21
572	185.01	286	12.92308	16.68581	22.52788	286	6.35	2.49	-3.17	-3.9
574	185.01	287	12.85619	16.68581	22.50929	287	5.96	2.49	-3.16	-3.92
576	185.01	288	12.82274	16.75338	22.49071	288	6.08	2.49	-3.15	-3.87
578	185.01	289	12.83946	16.71959	22.54647	289	4.58	2.46	-3.15	-3.94
580	185.01	290	12.85619	16.71959	22.52788	290	3.62	2.46	-3.15	-4.05
582	185.01	291	12.83946	16.71959	22.49071	291	2.66	2.46	-3.14	-4.11
584	185.02	292	12.82274	16.75338	22.52788	292	2.29	2.45	-3.14	-4.13
586	185.02	293	12.85619	16.65203	22.50929	293	2.63	2.46	-3.12	-4.14
588	185.02	294	12.87291	16.7027	22.45353	294	3.55	2.46	-3.12	-4.05
590	185.02	295	12.85619	16.65203	22.43494	295	3.95	2.47	-3.12	-4
592	185.02	296	12.85619	16.7027	22.45353	296	3.63	2.48	-3.12	-4.03
594	185.02	297	12.83946	16.73649	22.54647	297	3.38	2.47	-3.12	-4.05

596	185.02	298	12.87291	16.71959	22.54647	298	3.82	2.48	-3.12	-4.01
598	185.02	299	12.85619	16.77027	22.50929	299	2.7	2.48	-3.11	-4.02
600	185.02	300	12.88963	16.71959	22.43494	300	2.77	2.48	-3.1	-4.03
602	185.02	301	12.83946	16.71959	22.41636	301	2.41	2.47	-3.11	-4.1
604	185.02	302	12.88963	16.73649	22.45353	302	2.51	2.46	-3.11	-4.09
606	185.02	303	12.87291	16.73649	22.47212	303	2.95	2.48	-3.1	-4.05
608	185.03	304	12.87291	16.73649	22.47212	304	2.87	2.48	-3.1	-4.04
610	185.03	305	12.83946	16.73649	22.49071	305	2.37	2.47	-3.09	-4.06
612	185.03	306	12.7893	16.78716	22.52788	306	2.66	2.48	-3.09	-4.05
614	185.03	307	12.77258	16.71959	22.50929	307	2.95	2.49	-3.08	-4.08
616	185.03	308	12.80602	16.77027	22.49071	308	3.06	2.49	-3.08	-4.06
618	185.03	309	12.83946	16.75338	22.50929	309	2.76	2.49	-3.07	-4.04
620	185.03	310	12.87291	16.68581	22.50929	310	2.81	2.48	-3.07	-4.07
622	185.03	311	12.85619	16.65203	22.50929	311	2.51	2.48	-3.06	-4.06
624	185.03	312	12.80602	16.65203	22.47212	312	2.27	2.48	-3.06	-4.09
626	185.03	313	12.77258	16.7027	22.47212	313	2.28	2.48	-3.06	-4.11
628	185.04	314	12.7893	16.7027	22.45353	314	2.55	2.48	-3.05	-4.11
630	185.04	315	12.85619	16.71959	22.45353	315	2.79	2.48	-3.06	-4.04
632	185.04	316	12.83946	16.75338	22.49071	316	2.62	2.49	-3.05	-4.01
634	185.04	317	12.77258	16.73649	22.47212	317	2.45	2.49	-3.04	-4.01
636	185.04	318	12.75585	16.73649	22.50929	318	3.04	2.5	-3.04	-3.95
638	185.04	319	12.75585	16.75338	22.47212	319	1.88	2.48	-3.03	-4.05
640	185.04	320	12.82274	16.68581	22.49071	320	2.03	2.48	-3.03	-4.11
642	185.04	321	12.80602	16.66892	22.43494	321	2.76	2.5	-3.02	-4.02
644	185.05	322	12.82274	16.7027	22.45353	322	3.36	2.51	-3.02	-3.95
646	185.05	323	12.83946	16.71959	22.47212	323	2.76	2.51	-3.02	-3.92
648	185.05	324	12.87291	16.68581	22.45353	324	3.45	2.52	-3.01	-3.95
650	185.05	325	12.90635	16.7027	22.47212	325	2.19	2.52	-3	-4
652	185.05	326	12.83946	16.73649	22.41636	326	4.46	2.55	-3	-3.86
654	185.05	327	12.82274	16.68581	22.41636	327	6.22	2.58	-2.99	-3.71
656	185.05	328	12.7893	16.66892	22.43494	328	5.31	2.58	-2.99	-3.7
658	185.05	329	12.75585	16.68581	22.45353	329	4.7	2.57	-2.99	-3.77
660	185.05	330	12.7893	16.68581	22.45353	330	4.34	2.56	-2.99	-3.8
662	185.06	331	12.80602	16.73649	22.52788	331	3.37	2.55	-2.99	-3.83
664	185.06	332	12.77258	16.65203	22.54647	332	3.24	2.56	-2.99	-3.85
666	185.06	333	12.80602	16.60135	22.50929	333	2.17	2.55	-2.98	-3.87
668	185.06	334	12.75585	16.66892	22.49071	334	3.36	2.56	-2.98	-3.85
670	185.06	335	12.77258	16.68581	22.45353	335	3.2	2.57	-2.98	-3.85
672	185.06	336	12.7893	16.66892	22.36059	336	3.68	2.58	-2.97	-3.75
674	185.06	337	12.7893	16.7027	22.39777	337	5.38	2.6	-2.97	-3.67
676	185.06	338	12.80602	16.7027	22.45353	338	3.11	2.57	-2.97	-3.81
678	185.07	339	12.80602	16.61824	22.49071	339	2.07	2.56	-2.97	-3.82
680	185.07	340	12.77258	16.61824	22.50929	340	4.36	2.59	-2.96	-3.71
682	185.07	341	12.80602	16.65203	22.52788	341	5.53	2.62	-2.95	-3.64
684	185.07	342	12.77258	16.63514	22.50929	342	4.82	2.62	-2.94	-3.65

686	185.07	343	12.7893	16.66892	22.47212	343	6.36	2.64	-2.94	-3.56
688	185.07	344	12.82274	16.7027	22.45353	344	4.56	2.64	-2.93	-3.61
690	185.07	345	12.80602	16.75338	22.37918	345	7.12	2.69	-2.93	-3.5
692	185.07	346	12.80602	16.66892	22.41636	346	6.72	2.69	-2.92	-3.45
694	185.07	347	12.83946	16.60135	22.49071	347	6.17	2.68	-2.91	-3.51
696	185.08	348	12.83946	16.65203	22.47212	348	6.46	2.7	-2.91	-3.52
698	185.08	349	12.77258	16.66892	22.43494	349	5.77	2.68	-2.91	-3.58
700	185.08	350	12.77258	16.63514	22.45353	350	3.48	2.66	-2.91	-3.68
702	185.08	351	12.77258	16.63514	22.49071	351	3.39	2.65	-2.91	-3.69
704	185.08	352	12.7893	16.63514	22.47212	352	3.63	2.65	-2.91	-3.67
706	185.08	353	12.85619	16.63514	22.47212	353	5.17	2.69	-2.91	-3.64
708	185.08	354	12.82274	16.68581	22.43494	354	7.31	2.72	-2.9	-3.44
710	185.08	355	12.77258	16.71959	22.41636	355	7.61	2.74	-2.9	-3.39
712	185.09	356	12.80602	16.7027	22.41636	356	7.65	2.74	-2.89	-3.38
714	185.09	357	12.83946	16.66892	22.45353	357	7.07	2.74	-2.88	-3.44
716	185.09	358	12.83946	16.65203	22.49071	358	7.26	2.74	-2.88	-3.41
718	185.09	359	12.82274	16.66892	22.52788	359	5.55	2.71	-2.88	-3.53
720	185.09	360	12.80602	16.65203	22.50929	360	6.79	2.74	-2.88	-3.46
722	185.09	361	12.82274	16.66892	22.50929	361	3.84	2.71	-2.88	-3.65
724	185.09	362	12.80602	16.66892	22.52788	362	3.68	2.71	-2.87	-3.69
726	185.09	363	12.75585	16.66892	22.50929	363	2.28	2.68	-2.87	-3.81
728	185.09	364	12.73913	16.61824	22.47212	364	3.07	2.69	-2.87	-3.75
730	185.1	365	12.67224	16.61824	22.45353	365	3.63	2.7	-2.86	-3.75
732	185.1	366	12.65552	16.71959	22.39777	366	4.72	2.72	-2.86	-3.63
734	185.1	367	12.73913	16.73649	22.39777	367	4.62	2.73	-2.86	-3.56
736	185.1	368	12.77258	16.7027	22.45353	368	5.54	2.75	-2.85	-3.5
738	185.1	369	12.72241	16.71959	22.41636	369	5.89	2.75	-2.85	-3.47
740	185.1	370	12.75585	16.73649	22.41636	370	7.14	2.78	-2.85	-3.42
742	185.1	371	12.75585	16.68581	22.43494	371	7	2.78	-2.84	-3.4
744	185.1	372	12.77258	16.68581	22.41636	372	7.15	2.77	-2.84	-3.42
746	185.1	373	12.7893	16.68581	22.45353	373	7.14	2.8	-2.83	-3.37
748	185.1	374	12.75585	16.61824	22.50929	374	6.68	2.79	-2.83	-3.37
750	185.11	375	12.77258	16.66892	22.45353	375	3.64	2.76	-2.82	-3.59
752	185.11	376	12.80602	16.66892	22.41636	376	5.7	2.77	-2.83	-3.46
754	185.11	377	12.7893	16.68581	22.47212	377	6.54	2.79	-2.83	-3.4
756	185.11	378	12.7893	16.65203	22.47212	378	6.8	2.79	-2.82	-3.4
758	185.11	379	12.77258	16.65203	22.50929	379	6.55	2.79	-2.82	-3.41
760	185.11	380	12.73913	16.60135	22.49071	380	7	2.81	-2.82	-3.38
762	185.11	381	12.67224	16.63514	22.41636	381	5.41	2.8	-2.81	-3.43
764	185.11	382	12.73913	16.71959	22.41636	382	5.48	2.81	-2.8	-3.45
766	185.11	383	12.75585	16.73649	22.43494	383	4.99	2.8	-2.8	-3.47
768	185.11	384	12.75585	16.68581	22.37918	384	5.95	2.82	-2.8	-3.38
770	185.12	385	12.77258	16.61824	22.39777	385	6.71	2.83	-2.79	-3.36
772	185.12	386	12.72241	16.55068	22.41636	386	7.7	2.84	-2.79	-3.29
774	185.12	387	12.6388	16.5	22.43494	387	5	2.8	-2.79	-3.43

776	185.12	388	12.57191	16.51689	22.41636	388	6.27	2.81	-2.79	-3.42
778	185.12	389	12.55518	16.60135	22.34201	389	6.4	2.82	-2.79	-3.37
780	185.12	390	12.60535	16.65203	22.37918	390	5.74	2.81	-2.78	-3.4
782	185.12	391	12.60535	16.61824	22.41636	391	6.48	2.81	-2.79	-3.39
784	185.12	392	12.6388	16.63514	22.49071	392	6.11	2.83	-2.79	-3.38
786	185.13	393	12.68896	16.60135	22.45353	393	6.93	2.84	-2.79	-3.34
788	185.13	394	12.72241	16.60135	22.39777	394	7.71	2.85	-2.78	-3.28
790	185.14	395	12.72241	16.58446	22.39777	395	7.72	2.86	-2.78	-3.27
792	185.14	396	12.75585	16.65203	22.49071	396	7.64	2.86	-2.77	-3.25
794	185.14	397	12.73913	16.68581	22.50929	397	7.84	2.87	-2.77	-3.27
796	185.14	398	12.77258	16.7027	22.52788	398	6.88	2.87	-2.76	-3.31
798	185.14	399	12.7893	16.7027	22.43494	399	6.48	2.87	-2.76	-3.34
800	185.14	400	12.80602	16.7027	22.45353	400	7.4	2.89	-2.76	-3.28
802	185.14	401	12.83946	16.7027	22.47212	401	7.07	2.88	-2.76	-3.33
804	185.14	402	12.7893	16.7027	22.41636	402	6.2	2.86	-2.76	-3.39
806	185.15	403	12.77258	16.7027	22.45353	403	7.07	2.88	-2.75	-3.3
808	185.15	404	12.73913	16.7027	22.43494	404	6.01	2.88	-2.73	-3.36
810	185.15	405	12.72241	16.68581	22.43494	405	6.42	2.87	-2.74	-3.33
812	185.15	406	12.77258	16.68581	22.37918	406	7.17	2.89	-2.74	-3.28
814	185.15	407	12.80602	16.66892	22.43494	407	6.76	2.88	-2.74	-3.31
816	185.15	408	12.77258	16.66892	22.49071	408	6.63	2.89	-2.73	-3.29
818	185.15	409	12.7893	16.66892	22.50929	409	3.97	2.83	-2.73	-3.55
820	185.15	410	12.70569	16.58446	22.47212	410	2.75	2.8	-2.73	-3.66
822	185.15	411	12.60535	16.48311	22.37918	411	2.57	2.82	-2.71	-3.54
824	185.15	412	12.62207	16.51689	22.37918	412	3.76	2.82	-2.72	-3.39
826	185.15	413	12.60535	16.58446	22.37918	413	6.76	2.87	-2.72	-3.31
828	185.16	414	12.60535	16.60135	22.43494	414	7.51	2.89	-2.72	-3.24
830	185.16	415	12.60535	16.63514	22.41636	415	7.22	2.88	-2.71	-3.27
832	185.16	416	12.6388	16.68581	22.37918	416	7.16	2.87	-2.71	-3.3
834	185.16	417	12.68896	16.66892	22.37918	417	6.26	2.89	-2.71	-3.32
836	185.16	418	12.68896	16.68581	22.37918	418	6.72	2.9	-2.71	-3.27
838	185.16	419	12.70569	16.65203	22.37918	419	5.68	2.89	-2.71	-3.35
840	185.16	420	12.72241	16.65203	22.34201	420	4.97	2.88	-2.71	-3.44
842	185.16	421	12.77258	16.68581	22.39777	421	5.34	2.89	-2.7	-3.35
844	185.16	422	12.77258	16.63514	22.41636	422	5.75	2.89	-2.7	-3.31
846	185.16	423	12.75585	16.61824	22.41636	423	6.19	2.89	-2.7	-3.3
848	185.16	424	12.73913	16.61824	22.41636	424	6.65	2.9	-2.71	-3.31
850	185.16	425	12.73913	16.68581	22.39777	425	5.69	2.91	-2.71	-3.3
852	185.16	426	12.80602	16.68581	22.37918	426	5.22	2.89	-2.71	-3.33
854	185.17	427	12.82274	16.7027	22.45353	427	5.72	2.9	-2.71	-3.32
856	185.17	428	12.7893	16.65203	22.45353	428	6.98	2.93	-2.7	-3.22
858	185.17	429	12.73913	16.63514	22.41636	429	6.84	2.91	-2.69	-3.21
860	185.17	430	12.77258	16.63514	22.39777	430	6.54	2.91	-2.69	-3.24
862	185.17	431	12.70569	16.66892	22.39777	431	2.47	2.84	-2.7	-3.49
864	185.17	432	12.70569	16.68581	22.39777	432	5.94	2.9	-2.7	-3.31

866	185.17	433	12.75585	16.71959	22.43494	433	6.81	2.91	-2.69	-3.26
868	185.17	434	12.7893	16.7027	22.43494	434	6.69	2.93	-2.68	-3.27
870	185.17	435	12.7893	16.66892	22.45353	435	6.88	2.92	-2.68	-3.23
872	185.18	436	12.80602	16.65203	22.43494	436	5.62	2.91	-2.68	-3.33
874	185.18	437	12.75585	16.51689	22.43494	437	3.1	2.88	-2.67	-3.56
876	185.18	438	12.53846	16.19595	22.43494	438	3.59	2.89	-2.66	-3.49
878	185.18	439	12.25418	16.04392	22.37918	439	5.44	2.89	-2.67	-3.34
880	185.18	440	12.10368	16.12838	22.32342	440	5.3	2.89	-2.67	-3.3
882	185.19	441	12.1204	16.28041	22.36059	441	6.31	2.92	-2.66	-3.23
884	185.19	442	12.20401	16.44932	22.34201	442	6.79	2.92	-2.67	-3.22
886	185.19	443	12.2709	16.53378	22.37918	443	6.78	2.92	-2.67	-3.21
888	185.19	444	12.37124	16.53378	22.39777	444	7.01	2.93	-2.66	-3.17
890	185.2	445	12.45485	16.56757	22.36059	445	6.85	2.93	-2.66	-3.22
892	185.2	446	12.48829	16.58446	22.36059	446	6.84	2.93	-2.66	-3.2
894	185.2	447	12.55518	16.65203	22.36059	447	5.66	2.93	-2.66	-3.26
896	185.2	448	12.60535	16.60135	22.36059	448	6.97	2.94	-2.65	-3.21
898	185.21	449	12.67224	16.60135	22.39777	449	5.44	2.94	-2.66	-3.26
900	185.21	450	12.70569	16.63514	22.45353	450	7.01	2.95	-2.66	-3.21
902	185.21	451	12.70569	16.63514	22.41636	451	7.46	2.96	-2.65	-3.16
904	185.21	452	12.68896	16.65203	22.43494	452	7.79	2.97	-2.66	-3.16
906	185.22	453	12.67224	16.61824	22.39777	453	7.74	2.97	-2.66	-3.12
908	185.22	454	12.70569	16.61824	22.39777	454	7.09	2.96	-2.65	-3.15
910	185.22	455	12.67224	16.61824	22.41636	455	7.87	2.97	-2.65	-3.14
912	185.22	456	12.68896	16.63514	22.45353	456	7.73	2.96	-2.64	-3.17
914	185.22	457	12.73913	16.63514	22.45353	457	6.83	2.97	-2.64	-3.19
916	185.22	458	12.7893	16.65203	22.45353	458	7.33	2.97	-2.63	-3.18
918	185.22	459	12.75585	16.65203	22.45353	459	7.69	2.98	-2.63	-3.2
920	185.22	460	12.73913	16.66892	22.41636	460	6.93	2.97	-2.63	-3.2
922	185.23	461	12.7893	16.7027	22.34201	461	7.13	2.98	-2.63	-3.17
924	185.23	462	12.7893	16.66892	22.36059	462	5.78	2.98	-2.63	-3.28
926	185.23	463	12.77258	16.68581	22.37918	463	6.89	2.97	-2.62	-3.18
928	185.23	464	12.75585	16.68581	22.34201	464	6.07	2.98	-2.62	-3.19
930	185.23	465	12.7893	16.65203	22.37918	465	6.74	2.98	-2.62	-3.19
932	185.23	466	12.80602	16.66892	22.43494	466	4.77	2.98	-2.62	-3.27
934	185.23	467	12.7893	16.66892	22.41636	467	5.33	2.97	-2.63	-3.28
936	185.23	468	12.7893	16.66892	22.43494	468	7.37	2.98	-2.62	-3.13
938	185.23	469	12.77258	16.63514	22.39777	469	7.13	3	-2.62	-3.12
940	185.23	470	12.80602	16.65203	22.39777	470	6.97	2.99	-2.62	-3.16
942	185.23	471	12.82274	16.61824	22.37918	471	6.78	3	-2.62	-3.14
944	185.24	472	12.67224	16.48311	22.41636	472	7.04	3	-2.61	-3.13
946	185.24	473	12.17057	16.04392	22.41636	473	6.91	3.01	-2.6	-3.1
948	185.24	474	11.43478	15.60473	22.28625	474	6.91	3	-2.59	-3.11
950	185.24	475	10.74916	15.33446	22.17472	475	7.19	3.03	-2.58	-3.1
952	185.24	476	10.26421	15.16554	22.0632	476	7.47	3.01	-2.58	-3.08
954	185.24	477	9.929766	15.11486	22.04461	477	7.43	3.01	-2.59	-3.12

956	185.24	478	9.695652	15.14865	22.00743	478	7.69	3.02	-2.59	-3.12
958	185.24	479	9.595318	15.21622	22.00743	479	7.81	3.03	-2.59	-3.08
960	185.24	480	9.67893	15.31757	21.95167	480	7.67	3.02	-2.58	-3.12
962	185.24	481	9.829431	15.36824	21.97026	481	6.68	3.02	-2.58	-3.16
964	185.24	482	9.929766	15.40203	21.95167	482	6.57	3.01	-2.58	-3.19
966	185.24	483	9.963211	15.43581	21.98885	483	7.03	3.02	-2.58	-3.14
968	185.25	484	9.996656	15.4527	21.93309	484	6.91	3.02	-2.58	-3.14
970	185.25	485	10.04682	15.52027	21.93309	485	7.14	3.03	-2.57	-3.1
972	185.25	486	10.13043	15.52027	21.95167	486	5.78	3.02	-2.57	-3.14
974	185.25	487	10.16388	15.58784	21.95167	487	7.06	3.04	-2.58	-3.1
976	185.25	488	10.14716	15.62162	21.93309	488	7.59	3.04	-2.58	-3.09
978	185.25	489	10.19732	15.60473	21.9145	489	6.87	3.02	-2.59	-3.14
980	185.25	490	10.19732	15.68919	21.89591	490	6.86	3.04	-2.58	-3.15
982	185.25	491	10.28094	15.6723	21.85874	491	8.12	3.06	-2.59	-3.07
984	185.25	492	10.29766	15.6723	21.87732	492	7.81	3.04	-2.59	-3.08
986	185.25	493	10.28094	15.6723	21.95167	493	7.87	3.06	-2.58	-3.07
988	185.25	494	10.31438	15.65541	21.97026	494	7.96	3.06	-2.58	-3.05
990	185.25	495	10.3311	15.63851	21.93309	495	7.35	3.05	-2.58	-3.11
992	185.25	496	10.3311	15.63851	21.9145	496	5.9	3.05	-2.57	-3.16
994	185.25	497	10.39799	15.68919	21.93309	497	2.89	2.98	-2.57	-3.28
996	185.25	498	10.43144	15.68919	21.93309	498	5.81	3.02	-2.57	-3.21
998	185.25	499	10.43144	15.63851	21.87732	499	6.64	3.04	-2.58	-3.16
1000	185.26	500	10.46488	15.70608	21.87732	500	7.26	3.03	-2.58	-3.09
1002	185.26	501	10.48161	15.75676	21.87732	501	7.56	3.03	-2.57	-3.07
1004	185.26	502	10.48161	15.75676	21.9145	502	7.51	3.05	-2.58	-3.11
1006	185.26	503	10.48161	15.77365	21.93309	503	7.86	3.03	-2.58	-3.11
1008	185.26	504	10.48161	15.70608	21.93309	504	7.64	3.04	-2.58	-3.1
1010	185.26	505	10.49833	15.68919	21.9145	505	7.48	3.05	-2.58	-3.11
1012	185.26	506	10.54849	15.73986	21.89591	506	7.32	3.06	-2.57	-3.1
1014	185.26	507	10.54849	15.75676	21.82156	507	7.81	3.07	-2.57	-3.08
1016	185.26	508	10.58194	15.75676	21.82156	508	7.68	3.07	-2.57	-3.07
1018	185.26	509	10.56522	15.75676	21.84015	509	6.35	3.04	-2.57	-3.14
1020	185.26	510	10.56522	15.84122	21.87732	510	6.97	3.04	-2.57	-3.12
1022	185.26	511	10.59866	15.84122	21.89591	511	6.65	3.06	-2.57	-3.14
1024	185.27	512	10.63211	15.85811	21.89591	512	7.6	3.06	-2.57	-3.07
1026	185.27	513	10.68227	15.79054	21.93309	513	7.93	3.11	-2.57	-3.04
1028	185.27	514	10.71572	15.79054	21.95167	514	7.12	3.1	-2.57	-3.06
1030	185.27	515	10.66555	15.84122	21.95167	515	7.74	3.1	-2.57	-3.08
1032	185.27	516	10.61538	15.77365	21.89591	516	6.36	3.06	-2.57	-3.09
1034	185.28	517	10.66555	15.79054	21.85874	517	6.26	3.05	-2.57	-3.11
1036	185.28	518	10.73244	15.80743	21.85874	518	7.2	3.06	-2.57	-3.12
1038	185.28	519	10.73244	15.84122	21.84015	519	7.6	3.07	-2.57	-3.07
1040	185.28	520	10.68227	15.84122	21.84015	520	5.89	3.06	-2.57	-3.18
1042	185.28	521	10.68227	15.82432	21.85874	521	4.97	3.05	-2.57	-3.28
1044	185.28	522	10.64883	15.875	21.85874	522	7.32	3.07	-2.57	-3.15

1046	185.28	523	10.71572	15.85811	21.84015	523	8.02	3.1	-2.57	-3.05
1048	185.29	524	10.74916	15.84122	21.87732	524	7.99	3.12	-2.57	-3.01
1050	185.29	525	10.79933	15.875	21.87732	525	7.89	3.11	-2.57	-3.03
1052	185.29	526	10.78261	15.85811	21.9145	526	7.99	3.09	-2.57	-3.05
1054	185.29	527	10.79933	15.875	21.85874	527	7.86	3.1	-2.57	-3.04
1056	185.29	528	10.78261	15.875	21.85874	528	7.71	3.09	-2.57	-3.04
1058	185.29	529	10.83278	15.84122	21.9145	529	7.42	3.09	-2.56	-3.05
1060	185.29	530	10.86622	15.90878	21.93309	530	7.55	3.08	-2.56	-3.1
1062	185.3	531	10.86622	15.89189	21.9145	531	7.95	3.1	-2.56	-3.07
1064	185.3	532	10.86622	15.875	21.89591	532	6.52	3.09	-2.56	-3.12
1066	185.3	533	10.88294	15.94257	21.9145	533	7.87	3.11	-2.56	-3.07
1068	185.3	534	10.88294	15.90878	21.89591	534	7.55	3.1	-2.56	-3.06
1070	185.3	535	10.94983	15.94257	21.89591	535	7.68	3.09	-2.56	-3.05
1072	185.3	536	11	15.92568	21.89591	536	6.49	3.1	-2.55	-3.09
1074	185.3	537	11.01672	15.94257	21.89591	537	7.22	3.1	-2.55	-3.06
1076	185.3	538	11.01672	15.95946	21.89591	538	7.66	3.11	-2.56	-3.03
1078	185.3	539	10.98328	15.95946	21.9145	539	7.52	3.11	-2.56	-3.05
1080	185.3	540	10.98328	15.94257	21.87732	540	7.55	3.11	-2.56	-3.02
1082	185.3	541	11	15.97635	21.87732	541	7.35	3.1	-2.56	-2.99
1084	185.3	542	11.05017	15.95946	21.85874	542	7.78	3.1	-2.56	-3.07
1086	185.3	543	11.06689	15.99324	21.87732	543	7.4	3.11	-2.55	-3.1
1088	185.3	544	11.03344	15.97635	21.85874	544	8.02	3.13	-2.55	-3.04
1090	185.3	545	11.03344	15.95946	21.85874	545	7.23	3.11	-2.55	-3.08
1092	185.3	546	11.06689	15.92568	21.87732	546	7.09	3.11	-2.55	-3.1
1094	185.3	547	11.08361	15.90878	21.89591	547	8.04	3.12	-2.55	-3.06
1096	185.3	548	11.11706	15.97635	21.87732	548	7.95	3.1	-2.55	-3.04
1098	185.3	549	11.16722	15.94257	21.89591	549	8.12	3.11	-2.55	-3.03
1100	185.3	550	11.18395	16.01014	21.93309	550	7.88	3.11	-2.55	-3.05
1102	185.31	551	11.20067	16.0777	21.97026	551	8.11	3.13	-2.54	-3.03
1104	185.31	552	11.23411	16.09459	21.98885	552	7.49	3.1	-2.54	-3.08
1106	185.31	553	11.23411	16.04392	21.97026	553	7.55	3.1	-2.54	-3.04
1108	185.31	554	11.28428	16.04392	21.97026	554	7.98	3.12	-2.54	-3
1110	185.31	555	11.31773	16.0777	21.97026	555	7.93	3.11	-2.54	-2.99
1112	185.31	556	11.301	16.06081	21.93309	556	7.79	3.11	-2.54	-3.03
1114	185.31	557	11.301	16.0777	21.93309	557	7.68	3.11	-2.54	-3.02
1116	185.31	558	11.28428	16.11149	21.93309	558	7.15	3.12	-2.54	-3.1
1118	185.31	559	11.36789	16.12838	21.93309	559	8.23	3.14	-2.54	-3.04
1120	185.31	560	11.35117	16.09459	21.95167	560	8.04	3.11	-2.54	-3.01
1122	185.31	561	11.33445	16.02703	21.9145	561	7.88	3.12	-2.54	-3.03
1124	185.31	562	11.35117	16.02703	21.93309	562	7.68	3.11	-2.54	-3.05
1126	185.31	563	11.41806	16.09459	21.97026	563	8.07	3.13	-2.53	-3
1128	185.31	564	11.50167	16.09459	21.97026	564	7.6	3.11	-2.53	-3.06
1130	185.31	565	11.45151	16.0777	21.95167	565	7.76	3.12	-2.53	-3.05
1132	185.31	566	11.45151	16.12838	21.95167	566	7.69	3.12	-2.52	-3.03
1134	185.31	567	11.48495	16.11149	21.93309	567	7.4	3.11	-2.52	-3.05

1136	185.32	568	11.51839	16.14527	21.93309	568	6.59	3.1	-2.52	-3.07
1138	185.32	569	11.56856	16.14527	21.95167	569	7.51	3.12	-2.51	-3.06
1140	185.32	570	11.58528	16.14527	21.97026	570	6.52	3.11	-2.51	-3.12
1142	185.32	571	11.60201	16.16216	21.95167	571	7.45	3.13	-2.52	-3.08
1144	185.32	572	11.58528	16.14527	21.9145	572	7.76	3.12	-2.52	-3.06
1146	185.32	573	11.58528	16.16216	21.85874	573	7.18	3.11	-2.52	-3.08
1148	185.32	574	11.58528	16.19595	21.95167	574	7.83	3.12	-2.51	-3.02
1150	185.32	575	11.65217	16.21284	21.97026	575	8.03	3.13	-2.51	-3
1152	185.32	576	11.70234	16.14527	21.93309	576	8.14	3.12	-2.51	-3.01
1154	185.32	577	11.76923	16.24662	21.95167	577	7.82	3.13	-2.51	-3.01
1156	185.32	578	11.80268	16.28041	21.97026	578	7.79	3.12	-2.51	-3.03
1158	185.32	579	11.8194	16.33108	22.00743	579	8.37	3.15	-2.51	-2.96
1160	185.32	580	11.90301	16.34797	21.95167	580	7.88	3.15	-2.5	-2.98
1162	185.32	581	11.86957	16.31419	21.98885	581	7.34	3.12	-2.51	-3.01
1164	185.32	582	11.86957	16.33108	21.89591	582	7.66	3.12	-2.51	-3.01
1166	185.32	583	11.85284	16.34797	21.95167	583	8.12	3.13	-2.51	-3.01
1168	185.32	584	11.88629	16.33108	21.95167	584	7.63	3.13	-2.5	-3.02
1170	185.32	585	11.95318	16.38176	21.93309	585	7.79	3.14	-2.5	-3.04
1172	185.33	586	12.00334	16.34797	21.9145	586	7.73	3.14	-2.5	-3.01
1174	185.33	587	12.03679	16.33108	21.9145	587	8.15	3.14	-2.5	-3
1176	185.33	588	12.05351	16.33108	21.84015	588	7.35	3.13	-2.51	-3.04
1178	185.33	589	12.03679	16.36486	21.87732	589	7.77	3.14	-2.51	-2.98
1180	185.33	590	12.07023	16.43243	21.97026	590	7.45	3.12	-2.5	-3
		591	12.07023	16.41554	21.97026	591	7.86	3.13	-2.5	-3.01
		592	12.08696	16.39865	21.98885	592	7.59	3.14	-2.5	-3.01
		593	12.13712	16.41554	22.00743	593	8	3.14	-2.49	-2.99
		594	12.13712	16.46622	22.0632	594	7.95	3.13	-2.5	-3
		595	12.13712	16.44932	22.04461	595	8.16	3.15	-2.49	-2.96
		596	12.20401	16.41554	22.08178	596	8.21	3.15	-2.49	-2.95
		597	12.25418	16.46622	22.02602	597	8	3.13	-2.5	-2.97
		598	12.2709	16.48311	22.02602	598	7.92	3.15	-2.49	-2.95
		599	12.32107	16.46622	21.98885	599	8.36	3.14	-2.49	-2.95
		600	12.32107	16.44932	22.02602	600	8.21	3.14	-2.5	-2.99
		601	12.28763	16.46622	21.97026	601	8.17	3.17	-2.49	-3.02
		602	12.37124	16.48311	22.00743	602	8.01	3.15	-2.49	-3.02
		603	12.37124	16.56757	22.00743	603	7.94	3.14	-2.49	-3.01
		604	12.35452	16.56757	21.95167	604	7.63	3.15	-2.49	-2.99
		605	12.4214	16.55068	21.9145	605	8.17	3.16	-2.49	-2.93
		606	12.47157	16.58446	21.93309	606	8.17	3.15	-2.48	-2.96
		607	12.55518	16.5	21.98885	607	8.3	3.16	-2.48	-2.96
		608	12.55518	16.5	21.97026	608	7.6	3.16	-2.48	-3.01
		609	12.53846	16.48311	22.02602	609	7.64	3.17	-2.48	-3
		610	12.53846	16.55068	22.04461	610	7.04	3.15	-2.48	-3.02
		611	12.55518	16.61824	22.00743	611	7.56	3.14	-2.48	-3.01
		612	12.57191	16.60135	22.10037	612	8.19	3.16	-2.48	-2.96

613	12.58863	16.61824	22.08178	613	8.32	3.17	-2.48	-2.91
614	12.62207	16.61824	22.00743	614	8.1	3.16	-2.48	-2.93
615	12.6388	16.61824	22.08178	615	8.15	3.16	-2.47	-2.97
616	12.65552	16.61824	22.0632	616	8.1	3.17	-2.48	-2.97
617	12.62207	16.61824	22.04461	617	8.18	3.16	-2.47	-2.96
618	12.60535	16.63514	22.04461	618	7.93	3.15	-2.47	-2.96
619	12.6388	16.61824	22.00743	619	8.22	3.16	-2.47	-2.95
620	12.60535	16.61824	21.97026	620	7.8	3.15	-2.47	-2.99
621	12.58863	16.61824	21.98885	621	7.81	3.16	-2.45	-3
622	12.58863	16.65203	22.0632	622	7.95	3.16	-2.46	-3
623	12.65552	16.63514	22.04461	623	8.15	3.16	-2.46	-2.96
624	12.6388	16.61824	22.08178	624	8.08	3.17	-2.46	-2.96
625	12.6388	16.61824	22.10037	625	7.29	3.16	-2.45	-3.01
626	12.6388	16.61824	22.10037	626	7.25	3.17	-2.46	-3
627	12.58863	16.63514	22.0632	627	8.33	3.17	-2.45	-2.93
628	12.60535	16.66892	22.02602	628	8.44	3.19	-2.45	-2.92
629	12.58863	16.63514	22.0632	629	8.35	3.19	-2.44	-2.89
630	12.58863	16.66892	22.0632	630	8.31	3.21	-2.44	-2.9
631	12.60535	16.66892	22.00743	631	8.21	3.2	-2.44	-2.95
632	12.65552	16.60135	21.97026	632	8.27	3.2	-2.43	-2.94
633	12.67224	16.61824	22.02602	633	8.05	3.18	-2.42	-2.91
634	12.65552	16.66892	22.00743	634	7.95	3.16	-2.43	-2.93
635	12.6388	16.65203	22.00743	635	8.22	3.19	-2.43	-2.96
636	12.67224	16.66892	21.98885	636	7.78	3.18	-2.43	-2.98
637	12.75585	16.66892	22.00743	637	7.73	3.18	-2.43	-2.98
638	12.77258	16.66892	22.02602	638	8.15	3.18	-2.44	-2.93
639	12.70569	16.68581	22.08178	639	8.35	3.18	-2.44	-2.93
640	12.65552	16.68581	22.0632	640	8.17	3.18	-2.43	-2.95
641	12.6388	16.63514	22.10037	641	8.2	3.18	-2.43	-2.94
642	12.68896	16.66892	22.08178	642	8.23	3.19	-2.42	-2.97
643	12.72241	16.65203	22.02602	643	8.05	3.19	-2.43	-2.95
644	12.72241	16.66892	22.0632	644	8.36	3.19	-2.43	-2.95
645	12.68896	16.63514	22.04461	645	8.32	3.19	-2.43	-2.91
646	12.68896	16.65203	22.04461	646	8.32	3.18	-2.44	-2.91
647	12.72241	16.63514	22.04461	647	7.96	3.19	-2.43	-2.96
648	12.72241	16.65203	21.98885	648	8.1	3.19	-2.43	-2.95
649	12.73913	16.63514	22.04461	649	8.03	3.18	-2.43	-2.99
650	12.73913	16.63514	22.08178	650	7.77	3.16	-2.43	-2.95
651	12.67224	16.63514	22.02602	651	8.06	3.16	-2.44	-2.94
652	12.68896	16.66892	22.0632	652	8.06	3.16	-2.44	-2.93
653	12.68896	16.66892	22.04461	653	7.78	3.17	-2.43	-2.94
654	12.65552	16.63514	22.04461	654	8.25	3.18	-2.42	-2.9
655	12.6388	16.61824	22.11896	655	8.35	3.18	-2.42	-2.9
656	12.65552	16.60135	22.08178	656	8.23	3.19	-2.42	-2.92
657	12.68896	16.65203	22.02602	657	8.32	3.18	-2.42	-2.94

658	12.67224	16.7027	22.04461	658	8.05	3.18	-2.42	-2.94
659	12.68896	16.63514	22.02602	659	7.71	3.17	-2.43	-3
660	12.68896	16.65203	22.02602	660	7.95	3.17	-2.43	-2.96
661	12.67224	16.60135	22.0632	661	8.2	3.2	-2.42	-2.95
662	12.67224	16.61824	22.02602	662	7.31	3.16	-2.43	-2.98
663	12.67224	16.63514	22.02602	663	7.04	3.15	-2.43	-3.04
664	12.67224	16.61824	22.00743	664	7.77	3.16	-2.43	-2.97
665	12.68896	16.58446	21.98885	665	8.25	3.17	-2.43	-2.92
666	12.70569	16.65203	22.00743	666	8.32	3.2	-2.43	-2.87
667	12.65552	16.63514	22.00743	667	7.46	3.17	-2.43	-2.94
668	12.65552	16.66892	22.04461	668	8.03	3.16	-2.43	-3
669	12.65552	16.66892	22.04461	669	7.9	3.16	-2.44	-2.96
670	12.70569	16.61824	22.08178	670	7.95	3.18	-2.43	-2.92
671	12.70569	16.61824	22.08178	671	8.27	3.18	-2.43	-2.92
672	12.68896	16.60135	22.11896	672	8.53	3.19	-2.43	-2.88
673	12.73913	16.58446	22.10037	673	8.42	3.18	-2.42	-2.91
674	12.77258	16.61824	22.04461	674	8.3	3.2	-2.43	-2.92
675	12.75585	16.63514	21.98885	675	8.06	3.17	-2.42	-2.9
676	12.70569	16.60135	21.98885	676	7.68	3.15	-2.41	-2.94
677	12.68896	16.61824	22.02602	677	8.11	3.16	-2.42	-2.92
678	12.72241	16.60135	21.98885	678	7.79	3.16	-2.42	-2.96
679	12.72241	16.65203	21.95167	679	8.43	3.17	-2.42	-2.93
680	12.73913	16.63514	22.00743	680	8.38	3.19	-2.41	-2.9
681	12.73913	16.61824	22.02602	681	8.45	3.21	-2.41	-2.88
682	12.70569	16.66892	22.02602	682	8.41	3.19	-2.4	-2.95
683	12.70569	16.66892	21.97026	683	8.4	3.2	-2.4	-2.91
684	12.68896	16.65203	21.98885	684	8.52	3.2	-2.39	-2.89
685	12.70569	16.66892	22.02602	685	8.31	3.2	-2.4	-2.91
686	12.70569	16.73649	22.02602	686	8.31	3.2	-2.4	-2.92
687	12.72241	16.7027	22.04461	687	8.41	3.2	-2.4	-2.88
688	12.67224	16.63514	22.02602	688	8.38	3.2	-2.39	-2.88
689	12.72241	16.61824	22.04461	689	7.92	3.19	-2.4	-2.96
690	12.67224	16.63514	22.04461	690	8.46	3.22	-2.4	-2.9
691	12.67224	16.65203	22.0632	691	8.45	3.21	-2.39	-2.91
692	12.68896	16.63514	22.08178	692	8.24	3.17	-2.4	-2.93
693	12.68896	16.63514	22.10037	693	8.57	3.18	-2.4	-2.94
694	12.70569	16.65203	22.02602	694	8.36	3.19	-2.4	-2.93
695	12.6388	16.63514	22.08178	695	8.55	3.21	-2.4	-2.91
696	12.67224	16.66892	22.08178	696	8.34	3.21	-2.39	-2.86
697	12.67224	16.71959	22.04461	697	7.99	3.2	-2.38	-2.89
698	12.6388	16.65203	22.10037	698	8.21	3.2	-2.38	-2.91
699	12.68896	16.65203	22.0632	699	7.64	3.18	-2.39	-2.95
700	12.6388	16.61824	21.97026	700	7.66	3.18	-2.38	-2.92
701	12.60535	16.55068	22.04461	701	8.01	3.18	-2.39	-2.89
702	12.60535	16.55068	21.97026	702	8.26	3.17	-2.39	-2.95

703	12.58863	16.58446	21.93309	703	8.26	3.18	-2.39	-2.91
704	12.55518	16.60135	21.97026	704	8.33	3.2	-2.39	-2.92
705	12.58863	16.66892	22.04461	705	8.11	3.21	-2.38	-2.91
706	12.67224	16.68581	22.00743	706	8.35	3.23	-2.38	-2.89
707	12.68896	16.63514	21.98885	707	8.54	3.22	-2.38	-2.9
708	12.67224	16.58446	22.00743	708	8.34	3.21	-2.38	-2.91
709	12.6388	16.58446	21.97026	709	8.36	3.21	-2.38	-2.9
710	12.68896	16.63514	21.98885	710	8.18	3.2	-2.38	-2.92
711	12.67224	16.65203	22.02602	711	8.23	3.21	-2.37	-2.93
712	12.60535	16.63514	22.02602	712	8.15	3.21	-2.37	-2.91
713	12.65552	16.61824	21.98885	713	8.54	3.21	-2.38	-2.91
714	12.67224	16.65203	21.95167	714	8.46	3.2	-2.38	-2.89
715	12.68896	16.60135	21.97026	715	8.17	3.2	-2.38	-2.91
716	12.72241	16.58446	21.97026	716	8.36	3.21	-2.38	-2.93
717	12.65552	16.61824	22.00743	717	8.23	3.21	-2.38	-2.9
718	12.6388	16.61824	21.98885	718	8.09	3.21	-2.38	-2.89
719	12.6388	16.63514	21.98885	719	8.49	3.22	-2.38	-2.88
720	12.67224	16.65203	22.00743	720	8.44	3.22	-2.39	-2.87
721	12.70569	16.60135	22.00743	721	8.32	3.2	-2.38	-2.89
722	12.70569	16.56757	21.93309	722	7.98	3.21	-2.38	-2.91
723	12.68896	16.58446	21.93309	723	8.07	3.22	-2.38	-2.9
724	12.72241	16.60135	21.9145	724	7.94	3.23	-2.37	-2.86
725	12.73913	16.60135	21.95167	725	8.42	3.23	-2.37	-2.88
726	12.72241	16.61824	22.00743	726	8.35	3.23	-2.37	-2.87
727	12.73913	16.58446	21.97026	727	7.74	3.22	-2.37	-2.89
728	12.75585	16.61824	21.93309	728	8.5	3.23	-2.37	-2.83
729	12.70569	16.61824	21.97026	729	8.36	3.22	-2.38	-2.88
730	12.68896	16.63514	22.00743	730	8.31	3.19	-2.37	-2.86
731	12.68896	16.65203	22.02602	731	8.2	3.2	-2.37	-2.87
732	12.67224	16.58446	22.0632	732	8.38	3.22	-2.37	-2.85
733	12.62207	16.61824	22.0632	733	8.25	3.21	-2.36	-2.86
734	12.65552	16.63514	21.98885	734	7.8	3.2	-2.37	-2.9
735	12.60535	16.61824	22.00743	735	7.94	3.21	-2.37	-2.88
736	12.6388	16.65203	22.00743	736	8.33	3.22	-2.37	-2.88
737	12.68896	16.65203	21.98885	737	8.56	3.24	-2.37	-2.85
738	12.72241	16.61824	21.93309	738	7.68	3.21	-2.38	-2.91
739	12.67224	16.65203	21.97026	739	8.11	3.22	-2.37	-2.9
740	12.67224	16.63514	21.93309	740	8.39	3.22	-2.37	-2.83
741	12.68896	16.58446	21.95167	741	8.06	3.23	-2.36	-2.84
742	12.68896	16.56757	21.97026	742	8.11	3.22	-2.36	-2.89
743	12.68896	16.60135	21.98885	743	7.73	3.2	-2.37	-2.89
744	12.67224	16.63514	21.95167	744	8.6	3.22	-2.37	-2.86
745	12.65552	16.58446	21.98885	745	8.53	3.24	-2.37	-2.82
746	12.70569	16.63514	21.97026	746	8.4	3.23	-2.36	-2.84
747	12.68896	16.63514	21.97026	747	8.52	3.23	-2.36	-2.85

748	12.65552	16.61824	21.93309	748	8.41	3.24	-2.35	-2.83
749	12.65552	16.61824	21.97026	749	7.73	3.21	-2.36	-2.86
750	12.65552	16.61824	22.02602	750	8.47	3.23	-2.36	-2.81
751	12.67224	16.63514	21.97026	751	8.33	3.23	-2.36	-2.83
752	12.72241	16.63514	21.95167	752	8.1	3.22	-2.36	-2.88
753	12.70569	16.61824	22.00743	753	7.61	3.21	-2.35	-2.89
754	12.68896	16.61824	21.97026	754	8.24	3.23	-2.36	-2.85
755	12.60535	16.61824	21.98885	755	8.28	3.23	-2.36	-2.87
756	12.57191	16.60135	21.98885	756	8.42	3.24	-2.35	-2.84
757	12.62207	16.58446	21.95167	757	8.02	3.23	-2.35	-2.89
758	12.6388	16.61824	21.93309	758	6.76	3.2	-2.35	-2.97
759	12.62207	16.63514	21.89591	759	7.6	3.21	-2.35	-2.94
760	12.6388	16.66892	21.85874	760	8.44	3.24	-2.35	-2.83
761	12.70569	16.63514	21.87732	761	8.4	3.25	-2.35	-2.8
762	12.67224	16.58446	21.9145	762	8.53	3.23	-2.36	-2.82
763	12.67224	16.63514	21.93309	763	8.52	3.23	-2.34	-2.82
764	12.6388	16.63514	21.9145	764	7.73	3.23	-2.35	-2.89
765	12.62207	16.56757	21.93309	765	8.33	3.26	-2.35	-2.84
766	12.57191	16.55068	21.85874	766	8.42	3.23	-2.35	-2.86
767	12.60535	16.58446	21.87732	767	8.53	3.23	-2.35	-2.82
768	12.58863	16.58446	21.95167	768	8.56	3.22	-2.35	-2.83
769	12.58863	16.58446	21.9145	769	8.41	3.22	-2.35	-2.85
770	12.58863	16.61824	21.9145	770	8.23	3.22	-2.35	-2.83
771	12.65552	16.61824	21.87732	771	5.16	3.17	-2.35	-2.99
772	12.68896	16.53378	21.89591	772	8.24	3.26	-2.35	-2.85
773	12.57191	16.53378	21.93309	773	8.6	3.25	-2.34	-2.82
774	12.50502	16.53378	21.95167	774	8.58	3.23	-2.34	-2.84
775	12.48829	16.51689	21.9145	775	8.45	3.23	-2.34	-2.85
776	12.52174	16.58446	21.93309	776	8.65	3.24	-2.34	-2.84
777	12.50502	16.58446	21.95167	777	8.34	3.23	-2.34	-2.84
778	12.57191	16.58446	21.95167	778	8.29	3.23	-2.34	-2.88
779	12.58863	16.56757	21.97026	779	7.87	3.24	-2.34	-2.91
780	12.6388	16.60135	21.93309	780	8.35	3.23	-2.34	-2.87
781	12.65552	16.61824	21.95167	781	8.43	3.24	-2.33	-2.81
782	12.67224	16.60135	21.93309	782	8.05	3.23	-2.33	-2.86
783	12.62207	16.31419	21.93309	783	7.63	3.21	-2.32	-2.93
784	12.17057	15.62162	21.89591	784	7.39	3.17	-2.32	-2.92
785	11.31773	14.94595	21.7658	785	7.61	3.18	-2.33	-2.92
786	10.59866	14.72635	21.63569	786	8.28	3.22	-2.32	-2.9
787	10.21405	14.76014	21.50558	787	8.23	3.19	-2.31	-2.91
788	10.01338	14.92905	21.44981	788	8.29	3.2	-2.32	-2.92
789	10.08027	15.13176	21.39405	789	7.72	3.19	-2.32	-2.94
790	10.28094	15.31757	21.44981	790	8.04	3.19	-2.33	-2.9
791	10.48161	15.46959	21.52416	791	8.1	3.22	-2.33	-2.89
792	10.699	15.60473	21.59851	792	7.95	3.19	-2.34	-2.92

793	10.89967	15.73986	21.6171	793	7.9	3.2	-2.33	-2.88
794	11.08361	15.82432	21.63569	794	7.72	3.18	-2.33	-2.92
795	11.25084	15.90878	21.65428	795	7.31	3.17	-2.33	-2.93
796	11.36789	15.94257	21.65428	796	7.67	3.17	-2.34	-2.95
797	11.46823	16.01014	21.59851	797	7.85	3.18	-2.34	-2.95
798	11.60201	16.09459	21.59851	798	7.23	3.16	-2.34	-2.98
799	11.63545	16.11149	21.59851	799	7.46	3.17	-2.34	-2.94
800	11.6689	16.09459	21.65428	800	7.19	3.17	-2.34	-2.96
801	11.71906	16.12838	21.71004	801	7.78	3.17	-2.34	-2.95
802	11.80268	16.12838	21.67286	802	7.65	3.15	-2.35	-2.97
803	11.86957	16.21284	21.63569	803	7.26	3.17	-2.35	-2.94
804	11.91973	16.22973	21.67286	804	8.58	3.22	-2.34	-2.88
805	11.9699	16.16216	21.71004	805	8.32	3.2	-2.34	-2.89
806	11.9699	16.16216	21.72862	806	8.66	3.21	-2.35	-2.85
807	12.00334	16.24662	21.72862	807	7.67	3.17	-2.34	-2.91
808	12.00334	16.24662	21.69145	808	8.16	3.19	-2.34	-2.87
809	12.02007	16.26351	21.69145	809	8.21	3.21	-2.33	-2.84
810	12.10368	16.31419	21.71004	810	8.5	3.22	-2.34	-2.83
811	12.13712	16.2973	21.67286	811	8.58	3.21	-2.34	-2.84
812	12.17057	16.34797	21.71004	812	8.45	3.21	-2.34	-2.87
813	12.22074	16.34797	21.72862	813	8.37	3.22	-2.33	-2.86
814	12.22074	16.36486	21.78439	814	8.42	3.23	-2.33	-2.84
815	12.18729	16.41554	21.82156	815	7.17	3.2	-2.33	-2.91
816	12.22074	16.39865	21.82156	816	6.06	3.19	-2.33	-2.98
817	12.28763	16.39865	21.85874	817	6.75	3.16	-2.33	-2.96
818	12.2709	16.31419	21.80297	818	7.8	3.17	-2.33	-2.91
819	12.30435	16.39865	21.7658	819	8.12	3.22	-2.33	-2.87
820	12.37124	16.33108	21.82156	820	8.2	3.18	-2.33	-2.89
821	12.37124	16.33108	21.84015	821	8.3	3.19	-2.33	-2.87
822	12.32107	16.43243	21.80297	822	8.28	3.21	-2.33	-2.86
823	12.37124	16.51689	21.82156	823	8.56	3.22	-2.34	-2.86
824	12.40468	16.5	21.84015	824	8.26	3.2	-2.33	-2.87
825	12.45485	16.48311	21.85874	825	8.55	3.21	-2.33	-2.85
826	12.43813	16.51689	21.84015	826	8.38	3.2	-2.32	-2.9
827	12.40468	16.48311	21.84015	827	8.36	3.21	-2.33	-2.88
828	12.4214	16.48311	21.80297	828	8.54	3.22	-2.33	-2.9
829	12.47157	16.53378	21.82156	829	8.73	3.24	-2.33	-2.86
830	12.43813	16.51689	21.84015	830	8.63	3.25	-2.33	-2.85
831	12.47157	16.55068	21.84015	831	8.53	3.23	-2.32	-2.88
832	12.53846	16.55068	21.78439	832	8.55	3.24	-2.32	-2.85
833	12.55518	16.53378	21.7658	833	8.6	3.24	-2.33	-2.87
834	12.57191	16.51689	21.78439	834	8.59	3.24	-2.33	-2.82
835	12.55518	16.58446	21.80297	835	8.46	3.22	-2.32	-2.84
836	12.53846	16.56757	21.84015	836	8.54	3.24	-2.32	-2.89
837	12.55518	16.55068	21.80297	837	8.33	3.24	-2.32	-2.87

838	12.60535	16.53378	21.80297	838	7.7	3.2	-2.32	-2.87
839	12.57191	16.51689	21.80297	839	8.24	3.23	-2.32	-2.82
840	12.53846	16.53378	21.7658	840	8.42	3.25	-2.32	-2.81
841	12.57191	16.61824	21.80297	841	8.44	3.25	-2.32	-2.82
842	12.58863	16.56757	21.85874	842	8.26	3.23	-2.32	-2.86
843	12.57191	16.58446	21.85874	843	8.42	3.23	-2.32	-2.85
844	12.60535	16.53378	21.82156	844	8.56	3.24	-2.33	-2.89
845	12.62207	16.5	21.82156	845	8.53	3.24	-2.33	-2.91
846	12.62207	16.48311	21.84015	846	7.8	3.22	-2.32	-2.9
847	12.58863	16.51689	21.85874	847	8.15	3.21	-2.32	-2.87
848	12.58863	16.53378	21.82156	848	8.32	3.23	-2.32	-2.86
849	12.55518	16.58446	21.84015	849	8.09	3.23	-2.32	-2.89
850	12.57191	16.55068	21.84015	850	8.69	3.24	-2.32	-2.83
851	12.60535	16.48311	21.80297	851	8.49	3.22	-2.32	-2.86
852	12.62207	16.53378	21.82156	852	8.54	3.24	-2.32	-2.83
853	12.58863	16.53378	21.84015	853	8.09	3.24	-2.31	-2.86
854	12.57191	16.55068	21.84015	854	8.45	3.22	-2.31	-2.85
855	12.58863	16.56757	21.84015	855	8.37	3.23	-2.31	-2.85
856	12.58863	16.58446	21.84015	856	8.52	3.23	-2.31	-2.81
857	12.57191	16.51689	21.85874	857	8.33	3.25	-2.31	-2.8
858	12.58863	16.55068	21.87732	858	8.44	3.26	-2.31	-2.84
859	12.58863	16.53378	21.87732	859	8.53	3.24	-2.32	-2.84
860	12.6388	16.56757	21.89591	860	8.63	3.25	-2.31	-2.86
861	12.65552	16.55068	21.9145	861	8.24	3.24	-2.31	-2.89
862	12.67224	16.51689	21.89591	862	8.44	3.23	-2.31	-2.86
863	12.57191	16.55068	21.84015	863	8.57	3.26	-2.31	-2.85
864	12.57191	16.55068	21.84015	864	8.47	3.26	-2.31	-2.8
865	12.58863	16.58446	21.82156	865	8.25	3.23	-2.31	-2.86
866	12.6388	16.55068	21.80297	866	8.4	3.24	-2.31	-2.87
867	12.67224	16.56757	21.80297	867	7.94	3.2	-2.31	-2.89
868	12.6388	16.55068	21.85874	868	8.04	3.22	-2.31	-2.91
869	12.58863	16.58446	21.82156	869	8.49	3.24	-2.31	-2.87
870	12.53846	16.58446	21.82156	870	8.37	3.23	-2.3	-2.85
871	12.60535	16.56757	21.84015	871	8.45	3.21	-2.31	-2.86
872	12.57191	16.56757	21.85874	872	8.37	3.22	-2.31	-2.87
873	12.50502	16.5	21.84015	873	8.28	3.23	-2.3	-2.89
874	12.45485	16.33108	21.78439	874	8.55	3.25	-2.3	-2.86
875	12.30435	16.16216	21.78439	875	8.51	3.27	-2.3	-2.83
876	12.03679	16.04392	21.7658	876	8.41	3.23	-2.3	-2.87
877	11.73579	15.95946	21.72862	877	8.62	3.27	-2.29	-2.84
878	11.51839	15.84122	21.65428	878	8.39	3.27	-2.29	-2.82
879	11.31773	15.73986	21.6171	879	8.53	3.25	-2.29	-2.83
880	11.11706	15.60473	21.57993	880	8.59	3.27	-2.29	-2.81
881	10.89967	15.48649	21.52416	881	8.6	3.27	-2.29	-2.82
882	10.71572	15.36824	21.52416	882	8.61	3.27	-2.28	-2.84

883	10.59866	15.31757	21.48699	883	8.68	3.29	-2.28	-2.82
884	10.44816	15.28378	21.44981	884	8.6	3.3	-2.28	-2.8
885	10.29766	15.21622	21.4684	885	8.6	3.29	-2.27	-2.81
886	10.1806	15.18243	21.44981	886	8.64	3.29	-2.28	-2.81
887	10.08027	15.18243	21.35688	887	8.63	3.28	-2.28	-2.79
888	9.979933	15.14865	21.30112	888	8.5	3.3	-2.29	-2.8
889	9.913043	15.09797	21.33829	889	8.68	3.29	-2.29	-2.78
890	9.795987	15.0473	21.35688	890	7.76	3.25	-2.28	-2.87
891	9.695652	15.0473	21.3197	891	7.57	3.26	-2.28	-2.9
892	9.67893	15.03041	21.28253	892	8.42	3.28	-2.29	-2.84
893	9.61204	14.99662	21.28253	893	8.57	3.29	-2.29	-2.78
894	9.545151	15.01351	21.24535	894	8.61	3.29	-2.29	-2.85
895	9.511706	14.96284	21.24535	895	8.65	3.28	-2.28	-2.86
896	9.428094	14.97973	21.22677	896	8.71	3.3	-2.29	-2.83
897	9.461538	14.96284	21.20818	897	8.51	3.28	-2.29	-2.8
898	9.461538	14.89527	21.20818	898	8.61	3.29	-2.29	-2.82
899	9.478261	14.96284	21.20818	899	8.32	3.25	-2.29	-2.87
900	9.511706	15.01351	21.171	900	8.38	3.26	-2.29	-2.88
901	9.528428	15.01351	21.15242	901	8.72	3.29	-2.29	-2.81
902	9.561873	15.0473	21.13383	902	8.6	3.29	-2.29	-2.81
903	9.578595	15.03041	21.171	903	8.62	3.31	-2.29	-2.75
904	9.645485	15.0473	21.171	904	8.64	3.31	-2.28	-2.78
905	9.645485	15.06419	21.171	905	8.67	3.3	-2.29	-2.82
906	9.712375	15.11486	21.20818	906	8.58	3.3	-2.29	-2.85
907	9.829431	15.18243	21.24535	907	8.67	3.3	-2.29	-2.83
908	9.913043	15.19932	21.22677	908	8.65	3.29	-2.29	-2.8
909	9.963211	15.30068	21.26394	909	8.59	3.27	-2.3	-2.8
910	10.06355	15.43581	21.3197	910	8.61	3.27	-2.29	-2.8
911	10.26421	15.57095	21.3197	911	8.37	3.25	-2.3	-2.86
912	10.46488	15.65541	21.3197	912	8.35	3.26	-2.31	-2.82
913	10.59866	15.68919	21.35688	913	8.46	3.27	-2.3	-2.82
914	10.73244	15.73986	21.37546	914	8.4	3.25	-2.31	-2.87
915	10.8495	15.79054	21.39405	915	8.46	3.26	-2.31	-2.84
916	10.86622	15.84122	21.39405	916	8.51	3.26	-2.31	-2.84
917	10.89967	15.875	21.37546	917	8.38	3.25	-2.31	-2.89
918	10.96656	15.89189	21.39405	918	8.49	3.26	-2.31	-2.87
919	11.01672	15.95946	21.37546	919	8.6	3.27	-2.32	-2.8
920	11.06689	15.95946	21.39405	920	8.47	3.26	-2.32	-2.83
921	11.06689	15.99324	21.37546	921	8.47	3.25	-2.31	-2.87
922	11.16722	15.95946	21.39405	922	8.55	3.26	-2.31	-2.83
923	11.23411	15.95946	21.39405	923	8.47	3.25	-2.32	-2.87
924	11.28428	15.97635	21.37546	924	8.5	3.28	-2.31	-2.84
925	11.301	16.04392	21.39405	925	8.47	3.27	-2.31	-2.84
926	11.35117	16.0777	21.39405	926	8.46	3.26	-2.32	-2.83
927	11.40134	16.0777	21.39405	927	8.49	3.25	-2.32	-2.85

928	11.38462	16.04392	21.4684	928	8.56	3.28	-2.31	-2.81
929	11.36789	16.06081	21.48699	929	8.44	3.26	-2.32	-2.81
930	11.41806	16.02703	21.4684	930	8.62	3.25	-2.32	-2.85
931	11.45151	16.0777	21.44981	931	8.33	3.24	-2.32	-2.85
932	11.43478	16.0777	21.43123	932	8.52	3.25	-2.31	-2.82
933	11.45151	16.02703	21.43123	933	8.65	3.26	-2.31	-2.82
934	11.50167	15.99324	21.44981	934	8.33	3.27	-2.32	-2.85
935	11.53512	16.04392	21.39405	935	8.42	3.25	-2.33	-2.87
936	11.55184	16.06081	21.43123	936	8.61	3.26	-2.33	-2.85
937	11.55184	16.06081	21.4684	937	8.56	3.25	-2.32	-2.84
938	11.55184	16.09459	21.48699	938	8.54	3.26	-2.31	-2.82
939	11.55184	16.12838	21.44981	939	8.49	3.25	-2.31	-2.83
940	11.51839	16.11149	21.41264	940	8.53	3.28	-2.31	-2.79
941	11.51839	16.09459	21.43123	941	8.52	3.28	-2.31	-2.79
942	11.55184	16.09459	21.4684	942	8.44	3.26	-2.31	-2.82
943	11.58528	16.12838	21.4684	943	8.45	3.26	-2.3	-2.81
944	11.60201	16.12838	21.48699	944	8.5	3.26	-2.31	-2.86
945	11.65217	16.14527	21.4684	945	8.44	3.27	-2.31	-2.82
946	11.68562	16.14527	21.4684	946	8.43	3.26	-2.31	-2.83
947	11.68562	16.14527	21.4684	947	8.56	3.27	-2.31	-2.85
948	11.71906	16.09459	21.50558	948	8.36	3.25	-2.31	-2.85
949	11.71906	16.11149	21.48699	949	8.41	3.23	-2.32	-2.85
950	11.73579	16.11149	21.4684	950	8.52	3.24	-2.32	-2.87
951	11.76923	16.11149	21.50558	951	8.63	3.24	-2.32	-2.84
952	11.8194	16.14527	21.50558	952	8.54	3.28	-2.31	-2.82
953	11.80268	16.19595	21.48699	953	8.66	3.28	-2.31	-2.79
954	11.83612	16.19595	21.50558	954	8.7	3.29	-2.31	-2.79
955	11.85284	16.17905	21.48699	955	8.62	3.28	-2.31	-2.83
956	11.83612	16.14527	21.48699	956	8.64	3.29	-2.3	-2.83
957	11.80268	16.14527	21.50558	957	8.57	3.28	-2.31	-2.79
958	11.8194	16.21284	21.48699	958	8.43	3.27	-2.31	-2.82
959	11.90301	16.21284	21.50558	959	8.45	3.28	-2.3	-2.82
960	11.95318	16.24662	21.48699	960	8.56	3.29	-2.3	-2.82
961	11.9699	16.26351	21.50558	961	8.46	3.28	-2.3	-2.86
962	11.95318	16.26351	21.52416	962	8.52	3.28	-2.3	-2.83
963	11.95318	16.2973	21.50558	963	8.59	3.27	-2.3	-2.83
964	11.9699	16.31419	21.48699	964	8.59	3.25	-2.31	-2.84
965	12.00334	16.24662	21.50558	965	8.1	3.24	-2.31	-2.87
966	12.02007	16.26351	21.50558	966	8.48	3.27	-2.31	-2.85
967	12.02007	16.2973	21.50558	967	8.62	3.26	-2.31	-2.85
968	12.07023	16.2973	21.4684	968	8.56	3.24	-2.31	-2.88
969	12.10368	16.2973	21.52416	969	8.44	3.24	-2.31	-2.86
970	12.1204	16.26351	21.56134	970	8.55	3.28	-2.3	-2.82
971	12.15385	16.24662	21.54275	971	8.55	3.27	-2.29	-2.85
972	12.15385	16.2973	21.54275	972	8.68	3.28	-2.29	-2.79

973	12.18729	16.34797	21.50558	973	8.58	3.26	-2.29	-2.82
974	12.25418	16.34797	21.50558	974	8.62	3.27	-2.3	-2.83
975	12.22074	16.33108	21.52416	975	7.96	3.24	-2.3	-2.9
976	12.25418	16.31419	21.50558	976	8.49	3.24	-2.3	-2.88
977	12.35452	16.2973	21.54275	977	8.52	3.25	-2.3	-2.84
978	12.35452	16.38176	21.52416	978	8.42	3.25	-2.29	-2.82
979	12.37124	16.38176	21.52416	979	8.61	3.27	-2.29	-2.83
980	12.4214	16.48311	21.54275	980	8.71	3.29	-2.29	-2.79
981	12.38796	16.46622	21.57993	981	8.62	3.27	-2.29	-2.81
982	12.40468	16.41554	21.59851	982	8.61	3.27	-2.28	-2.86
983	12.38796	16.48311	21.6171	983	8.38	3.27	-2.28	-2.85
984	12.43813	16.46622	21.6171	984	8.57	3.26	-2.29	-2.83
985	12.47157	16.48311	21.57993	985	8.53	3.25	-2.28	-2.86
986	12.48829	16.46622	21.56134	986	8.6	3.26	-2.28	-2.86
987	12.48829	16.48311	21.57993	987	8.55	3.26	-2.28	-2.87
988	12.52174	16.43243	21.59851	988	8.47	3.26	-2.29	-2.87
989	12.53846	16.44932	21.59851	989	8.37	3.24	-2.29	-2.9
990	12.55518	16.51689	21.6171	990	8.37	3.24	-2.29	-2.89
991	12.53846	16.5	21.6171	991	8.37	3.25	-2.29	-2.88
992	12.50502	16.44932	21.63569	992	8.48	3.26	-2.28	-2.86
993	12.55518	16.48311	21.67286	993	8.57	3.24	-2.29	-2.89
994	12.55518	16.44932	21.59851	994	8.59	3.23	-2.29	-2.9
995	12.52174	16.5	21.59851	995	8.45	3.24	-2.29	-2.87
996	12.53846	16.56757	21.6171	996	8.51	3.24	-2.29	-2.86
997	12.53846	16.5	21.63569	997	8.34	3.26	-2.3	-2.84
998	12.47157	16.5	21.6171	998	8.43	3.24	-2.3	-2.86
999	12.52174	16.51689	21.56134	999	8.61	3.25	-2.29	-2.85
1000	12.48829	16.46622	21.56134	1000	8.56	3.25	-2.29	-2.85
1001	12.48829	16.44932	21.6171	1001	8.48	3.26	-2.28	-2.88
1002	12.47157	16.46622	21.6171	1002	8.32	3.25	-2.29	-2.84
1003	12.52174	16.5	21.6171	1003	8.41	3.24	-2.29	-2.87
1004	12.50502	16.44932	21.57993	1004	8.44	3.23	-2.29	-2.85
1005	12.50502	16.51689	21.57993	1005	8.47	3.23	-2.3	-2.83
1006	12.50502	16.51689	21.54275	1006	8.43	3.22	-2.29	-2.87
1007	12.52174	16.5	21.52416	1007	6.98	3.21	-2.29	-2.93
1008	12.53846	16.5	21.56134	1008	7	3.19	-2.3	-2.94
1009	12.52174	16.55068	21.63569	1009	7.9	3.21	-2.3	-2.88
1010	12.53846	16.51689	21.67286	1010	8.47	3.24	-2.29	-2.86
1011	12.52174	16.5	21.65428	1011	8.45	3.23	-2.29	-2.82
1012	12.53846	16.55068	21.57993	1012	8.21	3.22	-2.3	-2.84
1013	12.50502	16.51689	21.6171	1013	8.4	3.22	-2.31	-2.89
1014	12.45485	16.46622	21.59851	1014	8.3	3.2	-2.3	-2.91
1015	12.45485	16.46622	21.56134	1015	8.35	3.21	-2.3	-2.89
1016	12.4214	16.5	21.57993	1016	8.51	3.25	-2.3	-2.86
1017	12.47157	16.46622	21.59851	1017	8.58	3.23	-2.3	-2.85

1018	12.48829	16.53378	21.59851	1018	8.5	3.23	-2.3	-2.84
1019	12.50502	16.51689	21.59851	1019	8.43	3.22	-2.3	-2.88
1020	12.48829	16.44932	21.6171	1020	8.42	3.23	-2.3	-2.85
1021	12.37124	16.36486	21.59851	1021	8.62	3.25	-2.3	-2.81
1022	12.25418	16.17905	21.57993	1022	8.72	3.27	-2.3	-2.83
1023	12.05351	16.02703	21.50558	1023	8.68	3.28	-2.3	-2.81
1024	11.83612	15.90878	21.50558	1024	8.44	3.25	-2.29	-2.82
1025	11.71906	15.84122	21.48699	1025	8.49	3.25	-2.29	-2.81
1026	11.61873	15.72297	21.43123	1026	8.57	3.27	-2.29	-2.77
1027	11.46823	15.63851	21.43123	1027	8.64	3.29	-2.28	-2.79
1028	11.35117	15.62162	21.37546	1028	8.43	3.28	-2.29	-2.82
1029	11.21739	15.57095	21.26394	1029	8.48	3.26	-2.29	-2.86
1030	11.13378	15.52027	21.30112	1030	8.55	3.25	-2.29	-2.82
1031	11.05017	15.4527	21.33829	1031	8.59	3.28	-2.29	-2.81
1032	10.91639	15.35135	21.3197	1032	8.63	3.28	-2.29	-2.85
1033	10.79933	15.35135	21.33829	1033	8.54	3.26	-2.28	-2.84
1034	10.78261	15.35135	21.26394	1034	8.52	3.27	-2.28	-2.81
1035	10.78261	15.35135	21.22677	1035	8.67	3.27	-2.28	-2.82
1036	10.74916	15.36824	21.22677	1036	8.64	3.27	-2.3	-2.86
1037	10.81605	15.40203	21.22677	1037	8.63	3.28	-2.29	-2.82
1038	10.8495	15.46959	21.24535	1038	8.59	3.27	-2.29	-2.82
1039	10.89967	15.53716	21.26394	1039	8.62	3.29	-2.29	-2.8
1040	10.93311	15.55405	21.30112	1040	8.66	3.28	-2.3	-2.82
1041	10.93311	15.57095	21.28253	1041	8.59	3.27	-2.29	-2.86
1042	10.98328	15.57095	21.24535	1042	8.53	3.27	-2.3	-2.82
1043	10.98328	15.53716	21.24535	1043	8.73	3.27	-2.3	-2.81
1044	10.96656	15.48649	21.26394	1044	8.74	3.28	-2.3	-2.85
1045	10.93311	15.53716	21.24535	1045	8.7	3.29	-2.3	-2.83
1046	10.93311	15.57095	21.24535	1046	8.43	3.24	-2.3	-2.87
1047	10.96656	15.57095	21.24535	1047	8.67	3.24	-2.3	-2.89
1048	10.94983	15.52027	21.24535	1048	8.61	3.25	-2.3	-2.89
1049	10.94983	15.53716	21.20818	1049	8.62	3.27	-2.3	-2.87
1050	10.94983	15.58784	21.20818	1050	8.66	3.27	-2.3	-2.84
1051	10.93311	15.6723	21.24535	1051	8.7	3.26	-2.3	-2.86
1052	10.88294	15.63851	21.24535	1052	8.65	3.28	-2.29	-2.83
1053	10.88294	15.58784	21.24535	1053	8.68	3.29	-2.29	-2.83
1054	10.88294	15.52027	21.26394	1054	8.73	3.27	-2.29	-2.85
1055	10.88294	15.52027	21.22677	1055	8.68	3.27	-2.29	-2.85
1056	10.88294	15.52027	21.22677	1056	8.64	3.28	-2.3	-2.84
1057	10.93311	15.53716	21.26394	1057	8.66	3.28	-2.29	-2.87
1058	10.93311	15.50338	21.22677	1058	8.57	3.27	-2.29	-2.84
1059	10.93311	15.50338	21.24535	1059	8.61	3.26	-2.29	-2.87
1060	10.94983	15.57095	21.24535	1060	8.6	3.26	-2.29	-2.88
1061	10.96656	15.57095	21.22677	1061	8.61	3.25	-2.29	-2.95
1062	11.01672	15.57095	21.26394	1062	8.59	3.23	-2.29	-2.95

1063	11	15.52027	21.22677	1063	7.98	3.22	-2.29	-2.94
1064	10.98328	15.58784	21.24535	1064	7.98	3.18	-2.29	-2.96
1065	11	15.68919	21.22677	1065	7.98	3.19	-2.3	-2.96
1066	11.16722	15.84122	21.20818	1066	7.98	3.2	-2.29	-2.93
1067	11.36789	15.97635	21.20818	1067	7.94	3.18	-2.3	-2.95
1068	11.51839	16.11149	21.26394	1068	8.28	3.2	-2.29	-2.91
1069	11.6689	16.19595	21.26394	1069	8.31	3.22	-2.3	-2.9
1070	11.83612	16.28041	21.30112	1070	8.56	3.22	-2.3	-2.9
1071	11.95318	16.31419	21.35688	1071	8.61	3.24	-2.29	-2.86
1072	12.05351	16.34797	21.39405	1072	8.66	3.24	-2.29	-2.85
1073	12.17057	16.38176	21.37546	1073	8.66	3.25	-2.28	-2.83
1074	12.23746	16.39865	21.39405	1074	8.57	3.25	-2.29	-2.82
1075	12.28763	16.33108	21.39405	1075	8.67	3.25	-2.29	-2.82
1076	12.30435	16.39865	21.41264	1076	8.67	3.28	-2.28	-2.79
1077	12.33779	16.39865	21.41264	1077	8.12	3.24	-2.28	-2.87
1078	12.35452	16.34797	21.37546	1078	8.13	3.21	-2.28	-2.87
1079	12.35452	16.38176	21.39405	1079	8.48	3.25	-2.29	-2.8
1080	12.38796	16.44932	21.39405	1080	8.67	3.29	-2.28	-2.82
1081	12.43813	16.38176	21.44981	1081	8.42	3.25	-2.27	-2.83
1082	12.40468	16.44932	21.43123	1082	8.69	3.25	-2.28	-2.85
1083	12.33779	16.44932	21.39405	1083	8.61	3.25	-2.28	-2.84
1084	12.35452	16.41554	21.41264	1084	8.58	3.25	-2.29	-2.81
1085	12.32107	16.43243	21.4684	1085	8.52	3.24	-2.29	-2.86
1086	12.35452	16.44932	21.4684	1086	8.62	3.27	-2.28	-2.82
1087	12.40468	16.46622	21.44981	1087	8.72	3.27	-2.28	-2.77
1088	12.4214	16.46622	21.44981	1088	8.69	3.27	-2.28	-2.8
1089	12.40468	16.48311	21.43123	1089	8.61	3.24	-2.29	-2.86
1090	12.38796	16.44932	21.4684	1090	8.61	3.27	-2.29	-2.85
1091	12.43813	16.38176	21.39405	1091	8.28	3.25	-2.29	-2.87
1092	12.45485	16.38176	21.43123	1092	8.16	3.23	-2.29	-2.91
1093	12.40468	16.38176	21.48699	1093	8.6	3.26	-2.29	-2.81
1094	12.40468	16.41554	21.50558	1094	8.61	3.25	-2.28	-2.83
1095	12.45485	16.39865	21.48699	1095	8.64	3.25	-2.28	-2.79
1096	12.45485	16.38176	21.54275	1096	8.68	3.27	-2.29	-2.79
1097	12.4214	16.46622	21.52416	1097	8.57	3.25	-2.29	-2.82
1098	12.47157	16.46622	21.44981	1098	8.68	3.28	-2.28	-2.79
1099	12.45485	16.44932	21.4684	1099	8.67	3.27	-2.28	-2.77
1100	12.48829	16.39865	21.4684	1100	8.68	3.27	-2.28	-2.82
1101	12.48829	16.43243	21.4684	1101	8.53	3.26	-2.28	-2.83
1102	12.47157	16.41554	21.50558	1102	8.58	3.25	-2.27	-2.82
1103	12.43813	16.43243	21.4684	1103	8.6	3.25	-2.28	-2.84
1104	12.43813	16.46622	21.4684	1104	8.59	3.25	-2.29	-2.84
1105	12.50502	16.44932	21.4684	1105	8.52	3.25	-2.28	-2.81
1106	12.50502	16.46622	21.4684	1106	8.5	3.25	-2.27	-2.83
1107	12.47157	16.48311	21.4684	1107	8.6	3.25	-2.28	-2.83

1108	12.43813	16.48311	21.4684	1108	8.52	3.26	-2.28	-2.81
1109	12.43813	16.46622	21.44981	1109	8.52	3.26	-2.28	-2.84
1110	12.47157	16.44932	21.44981	1110	8.5	3.25	-2.28	-2.85
1111	12.47157	16.43243	21.4684	1111	8.38	3.26	-2.28	-2.83
1112	12.47157	16.43243	21.50558	1112	8.55	3.25	-2.28	-2.84
1113	12.50502	16.44932	21.4684	1113	8.58	3.24	-2.29	-2.82
1114	12.48829	16.5	21.43123	1114	8.49	3.24	-2.28	-2.83
1115	12.53846	16.51689	21.48699	1115	8.36	3.23	-2.28	-2.82
1116	12.48829	16.46622	21.48699	1116	8.21	3.23	-2.28	-2.82
1117	12.48829	16.5	21.43123	1117	8.23	3.23	-2.28	-2.87
1118	12.47157	16.44932	21.43123	1118	8.49	3.23	-2.28	-2.84
1119	12.45485	16.39865	21.48699	1119	8.52	3.24	-2.28	-2.85
1120	12.47157	16.39865	21.48699	1120	8.63	3.24	-2.28	-2.84
1121	12.45485	16.48311	21.43123	1121	8.53	3.24	-2.28	-2.84
1122	12.50502	16.5	21.43123	1122	8.52	3.26	-2.29	-2.83
1123	12.53846	16.48311	21.44981	1123	8.12	3.22	-2.28	-2.88
1124	12.52174	16.44932	21.44981	1124	8.52	3.23	-2.28	-2.88
1125	12.50502	16.46622	21.44981	1125	8.37	3.23	-2.28	-2.87
1126	12.48829	16.43243	21.44981	1126	8.05	3.21	-2.28	-2.87
1127	12.47157	16.46622	21.48699	1127	8.31	3.22	-2.28	-2.86
1128	12.43813	16.46622	21.54275	1128	8.71	3.26	-2.27	-2.8
1129	12.48829	16.5	21.50558	1129	8.67	3.27	-2.27	-2.79
1130	12.50502	16.48311	21.48699	1130	8.45	3.26	-2.27	-2.82
1131	12.48829	16.51689	21.48699	1131	8.55	3.26	-2.27	-2.85
1132	12.48829	16.43243	21.4684	1132	8.64	3.26	-2.27	-2.79
1133	12.48829	16.43243	21.4684	1133	8.71	3.28	-2.26	-2.75
1134	12.47157	16.46622	21.4684	1134	8.71	3.26	-2.26	-2.82
1135	12.50502	16.46622	21.48699	1135	8.69	3.29	-2.27	-2.75
1136	12.53846	16.5	21.48699	1136	8.63	3.28	-2.27	-2.76
1137	12.50502	16.41554	21.4684	1137	8.35	3.26	-2.26	-2.78
1138	12.45485	16.39865	21.4684	1138	8.26	3.25	-2.26	-2.83
1139	12.43813	16.38176	21.4684	1139	8.62	3.26	-2.26	-2.81
1140	12.47157	16.38176	21.44981	1140	8.48	3.27	-2.26	-2.81
1141	12.43813	16.44932	21.44981	1141	8.57	3.27	-2.26	-2.82
1142	12.45485	16.46622	21.44981	1142	8.45	3.26	-2.26	-2.81
1143	12.47157	16.44932	21.44981	1143	8.47	3.27	-2.27	-2.8
1144	12.47157	16.48311	21.43123	1144	8.58	3.28	-2.28	-2.75
1145	12.47157	16.51689	21.43123	1145	8.43	3.25	-2.27	-2.8
1146	12.47157	16.46622	21.41264	1146	8.48	3.25	-2.27	-2.81
1147	12.47157	16.46622	21.43123	1147	8.51	3.25	-2.27	-2.8
1148	12.48829	16.5	21.41264	1148	8.7	3.3	-2.27	-2.77
1149	12.47157	16.48311	21.43123	1149	8.67	3.27	-2.27	-2.83
1150	12.50502	16.43243	21.43123	1150	8.55	3.28	-2.27	-2.8
1151	12.47157	16.43243	21.37546	1151	8.4	3.26	-2.27	-2.82
1152	12.48829	16.41554	21.43123	1152	8.46	3.25	-2.27	-2.82

1153	12.48829	16.44932	21.48699	1153	8.64	3.27	-2.27	-2.79
1154	12.48829	16.46622	21.4684	1154	8.62	3.26	-2.28	-2.81
1155	12.43813	16.41554	21.4684	1155	8.62	3.25	-2.28	-2.81
1156	12.43813	16.43243	21.48699	1156	8.63	3.27	-2.28	-2.79
1157	12.43813	16.43243	21.48699	1157	8.67	3.28	-2.28	-2.78
1158	12.4214	16.44932	21.48699	1158	8.76	3.29	-2.27	-2.77
1159	12.40468	16.48311	21.44981	1159	8.63	3.28	-2.27	-2.75
1160	12.43813	16.46622	21.4684	1160	8.43	3.28	-2.27	-2.75
1161	12.35452	16.43243	21.44981	1161	8.54	3.26	-2.27	-2.78
1162	12.43813	16.44932	21.4684	1162	8.68	3.28	-2.27	-2.81
1163	12.43813	16.48311	21.43123	1163	8.69	3.27	-2.27	-2.77
1164	12.47157	16.55068	21.41264	1164	8.48	3.26	-2.27	-2.78
1165	12.48829	16.53378	21.43123	1165	8.63	3.29	-2.27	-2.78
1166	12.48829	16.5	21.43123	1166	8.4	3.29	-2.26	-2.79
1167	12.48829	16.5	21.44981	1167	8.5	3.25	-2.26	-2.81
1168	12.45485	16.5	21.44981	1168	8.61	3.26	-2.27	-2.8
1169	12.47157	16.44932	21.48699	1169	8.69	3.29	-2.26	-2.78
1170	12.47157	16.43243	21.52416	1170	8.72	3.31	-2.26	-2.76
1171	12.52174	16.46622	21.48699	1171	8.68	3.28	-2.26	-2.81
1172	12.50502	16.48311	21.43123	1172	8.56	3.25	-2.27	-2.86
1173	12.50502	16.46622	21.43123	1173	8.54	3.25	-2.27	-2.87
1174	12.50502	16.44932	21.44981	1174	8.58	3.27	-2.27	-2.83
1175	12.50502	16.44932	21.4684	1175	8.64	3.27	-2.27	-2.85
1176	12.53846	16.43243	21.4684	1176	8.77	3.29	-2.28	-2.77
1177	12.47157	16.51689	21.4684	1177	8.5	3.26	-2.28	-2.81
1178	12.4214	16.46622	21.48699	1178	8.66	3.26	-2.28	-2.8
1179	12.40468	16.44932	21.44981	1179	8.64	3.28	-2.27	-2.78

Deli_exp_13

Experiment type: Deliquescence experiment. The regolith type is JSC Mars-1 in this experiment, with a thickness of 2 cm. The initial weight was 370.24 g. 2.89 wt% of calcium perchlorate was added increasing the mass to 380.93 g. The humidity buffer was LiCl which has a RH of 11.31 at 0 degrees Celsius. Chiller was set to -20°C. Temperature around the sample was controlled by the chiller.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= humidity buffer 3= atmosphere 4= sample

Mass Min.	Mass	RH Min.	Ch02	Ch03	Ch04	T Min.	Ch01	Ch02	Ch03	Ch04
0	381.8	0	12.40468	14.64189	20.42751	0	-4.24	-14.69	-21.02	-23.07
2	380.97	1	12.4214	13.44257	20.63197	1	-9.81	-16.4	-21.66	-23.45
4	380.52	2	12.50502	9.185811	20.94796	2	-11.65	-16.55	-21.46	-23.26
6	380.16	3	12.4214	3.763514	21.15242	3	-13.25	-15.4	-21.2	-23.43
8	380.07	4	12.07023	0.672297	21.20818	4	-12.6	-14.63	-20.96	-23.03
10	380.06	5	11.50167	1.523649	21.15242	5	-8.89	-14.31	-20.79	-22.5
12	380.1	6	10.83278	2.351351	20.98513	6	-3.17	-13.9	-20.62	-20.5
14	380.11	7	10.28094	0.959459	20.83643	7	1.04	-13.23	-20.45	-19.48
16	380.13	8	9.963211	5.570946	20.81784	8	-1.41	-12.72	-20.27	-19.08
18	380.16	9	9.946488	9	20.78067	9	-2.87	-12.36	-20.11	-18.89
20	380.18	10	10.04682	11.16216	20.87361	10	-4.82	-12.08	-19.98	-18.86
22	380.21	11	10.19732	12.64865	20.98513	11	-6	-11.82	-19.86	-18.86
24	380.22	12	10.29766	13.71284	21.05948	12	-6.42	-11.59	-19.74	-18.79
26	380.25	13	10.39799	14.40541	21.05948	13	-5.86	-11.44	-19.63	-18.66
28	380.26	14	10.48161	14.92905	21.09665	14	-5.24	-11.24	-19.52	-18.56
30	380.28	15	10.56522	15.33446	21.171	15	-4.39	-11.11	-19.42	-18.45
32	380.3	16	10.58194	15.58784	21.18959	16	-3.12	-10.95	-19.33	-18.38
34	380.3	17	10.61538	15.70608	21.171	17	-3.63	-10.82	-19.23	-18.31
36	380.33	18	10.64883	15.82432	21.22677	18	-3.95	-10.69	-19.14	-18.22
38	380.34	19	10.63211	15.95946	21.30112	19	-4.37	-10.51	-19.05	-18.13
40	380.34	20	10.63211	16.0777	21.28253	20	-3.84	-10.4	-18.97	-18.03
42	380.35	21	10.61538	16.21284	21.28253	21	-4.75	-10.27	-18.89	-17.95
44	380.36	22	10.59866	16.33108	21.30112	22	-5.16	-10.14	-18.81	-17.9
46	380.37	23	10.54849	16.33108	21.3197	23	-3.95	-10.06	-18.73	-17.82
48	380.37	24	10.51505	16.2973	21.33829	24	-2.8	-10	-18.65	-17.76
50	380.38	25	10.48161	16.34797	21.33829	25	-0.76	-9.89	-18.57	-17.74
52	380.39	26	10.46488	16.31419	21.37546	26	-0.29	-9.78	-18.5	-17.79
54	380.4	27	10.39799	16.39865	21.41264	27	-0.55	-9.68	-18.43	-17.74
56	380.4	28	10.31438	16.44932	21.44981	28	0.08	-9.58	-18.37	-17.73
58	380.53	29	10.29766	16.48311	21.54275	29	1.53	-9.51	-18.3	-17.84
60	380.41	30	10.29766	16.48311	21.59851	30	1.53	-9.41	-18.24	-17.96
62	380.43	31	10.21405	16.43243	21.67286	31	1.33	-9.32	-18.18	-17.99
64	380.43	32	10.14716	16.43243	21.63569	32	-1.43	-9.26	-18.12	-17.91
66	380.45	33	10.08027	16.39865	21.59851	33	-0.25	-9.12	-18.07	-17.85
68	380.44	34	9.979933	16.34797	21.65428	34	0.68	-9.07	-18.01	-17.89
70	380.46	35	9.929766	16.31419	21.74721	35	-3.89	-9	-17.95	-17.78
72	380.47	36	9.829431	16.19595	21.74721	36	-2.04	-8.94	-17.9	-17.65
74	380.47	37	9.67893	16.06081	21.78439	37	-3.15	-8.92	-17.86	-17.56
76	380.49	38	9.595318	15.90878	21.74721	38	-1.73	-8.86	-17.82	-17.48
78	380.5	39	9.528428	15.85811	21.7658	39	-1.28	-8.79	-17.77	-17.51
80	380.51	40	9.461538	15.79054	21.72862	40	1.89	-8.69	-17.73	-17.61
82	379.47	41	9.311037	15.80743	21.74721	41	2.62	-8.6	-17.67	-17.87
84	379.63	42	9.210702	15.68919	21.7658	42	2.88	-8.53	-17.61	-18.04

86	379.68	43	9.110368	15.57095	21.7658	43	2.97	-8.44	-17.55	-18.08
88	379.7	44	9.026756	15.52027	21.85874	44	2.81	-8.37	-17.49	-18.05
90	379.74	45	8.959866	15.50338	21.87732	45	2.77	-8.3	-17.44	-17.96
92	379.76	46	8.826087	15.53716	21.9145	46	2.11	-8.24	-17.39	-17.93
94	379.78	47	8.725753	15.52027	21.95167	47	2.47	-8.18	-17.34	-17.8
96	379.81	48	8.675585	15.4527	21.95167	48	2.5	-8.12	-17.29	-17.77
98	379.81	49	8.541806	15.35135	21.98885	49	2.67	-8.07	-17.25	-17.82
100	379.84	50	8.408027	15.31757	21.97026	50	2.87	-8.03	-17.19	-17.78
102	379.85	51	8.274247	15.28378	21.9145	51	2.99	-7.96	-17.16	-17.81
104	379.87	52	8.22408	15.25	21.93309	52	3.08	-7.91	-17.11	-17.79
106	379.9	53	8.123746	15.26689	21.9145	53	2.93	-7.86	-17.07	-17.8
108	379.91	54	8.023411	15.18243	21.95167	54	3.08	-7.82	-17.02	-17.78
110	379.92	55	7.939799	15.13176	21.93309	55	3.11	-7.77	-16.98	-17.78
112	379.93	56	7.856187	15.11486	22.00743	56	3.11	-7.7	-16.94	-17.72
114	379.95	57	7.822742	15.06419	22.04461	57	2.93	-7.68	-16.9	-17.72
116	379.96	58	7.755853	15.08108	22.02602	58	3.1	-7.62	-16.85	-17.66
118	379.97	59	7.705686	15.09797	21.98885	59	3.02	-7.59	-16.82	-17.67
120	379.99	60	7.655518	15.09797	22.04461	60	3.17	-7.55	-16.78	-17.67
122	380	61	7.605351	15.0473	21.98885	61	2.88	-7.53	-16.74	-17.64
124	380.01	62	7.454849	15.14865	21.98885	62	2.91	-7.51	-16.71	-17.53
126	380.03	63	7.454849	15.33446	22.02602	63	3.02	-7.47	-16.67	-17.54
128	380.03	64	7.454849	15.53716	22.11896	64	3	-7.42	-16.63	-17.49
130	380.05	65	7.38796	15.63851	22.08178	65	3.14	-7.37	-16.6	-17.44
132	380.06	66	7.438127	15.73986	22.10037	66	3.1	-7.34	-16.57	-17.42
134	380.07	67	7.488294	15.72297	22.13755	67	2.88	-7.32	-16.53	-17.35
136	380.08	68	7.488294	15.6723	22.11896	68	3.01	-7.27	-16.5	-17.27
138	380.09	69	7.454849	15.68919	22.15613	69	3.22	-7.22	-16.47	-17.3
140	380.1	70	7.438127	15.68919	22.24907	70	2.41	-7.23	-16.44	-17.26
142	380.11	71	7.404682	15.73986	22.36059	71	3.01	-7.17	-16.41	-17.16
144	380.12	72	7.38796	15.73986	22.34201	72	3.14	-7.12	-16.37	-17.19
146	380.14	73	7.471572	15.70608	22.37918	73	3.15	-7.09	-16.34	-17.17
148	380.14	74	7.471572	15.75676	22.39777	74	3.17	-7.08	-16.31	-17.16
150	380.16	75	7.404682	15.79054	22.36059	75	3.05	-7.03	-16.28	-17.14
152	380.16	76	7.354515	15.75676	22.32342	76	3.19	-7	-16.24	-17.12
154	380.17	77	7.337793	15.72297	22.37918	77	3.18	-6.94	-16.21	-17.08
156	380.19	78	7.32107	15.73986	22.36059	78	3.28	-6.9	-16.18	-17.03
158	380.19	79	7.287625	15.73986	22.43494	79	3.24	-6.87	-16.14	-16.99
160	380.21	80	7.354515	15.80743	22.39777	80	3.16	-6.84	-16.1	-16.97
162	380.21	81	7.354515	15.82432	22.37918	81	3.28	-6.77	-16.06	-16.92
164	380.22	82	7.371237	15.80743	22.37918	82	3.35	-6.72	-16.03	-16.87
166	380.24	83	7.371237	15.75676	22.47212	83	3.4	-6.65	-15.99	-16.76
168	380.24	84	7.354515	15.68919	22.49071	84	3.41	-6.63	-15.96	-16.69
170	380.25	85	7.337793	15.6723	22.45353	85	3.42	-6.57	-15.92	-16.61
172	380.26	86	7.371237	15.6723	22.45353	86	3.37	-6.56	-15.9	-16.66
174	380.27	87	7.32107	15.70608	22.45353	87	3.47	-6.53	-15.86	-16.68

176	380.28	88	7.287625	15.72297	22.45353	88	3.44	-6.47	-15.83	-16.63
178	380.28	89	7.237458	15.70608	22.47212	89	3.41	-6.47	-15.8	-16.64
180	380.29	90	7.187291	15.70608	22.45353	90	3.31	-6.46	-15.77	-16.6
182	380.3	91	7.137124	15.70608	22.47212	91	3.42	-6.4	-15.73	-16.53
184	380.3	92	7.237458	15.75676	22.50929	92	3.47	-6.38	-15.71	-16.52
186	380.31	93	7.220736	15.75676	22.56506	93	3.47	-6.34	-15.67	-16.48
188	380.32	94	7.237458	15.75676	22.52788	94	3.5	-6.33	-15.64	-16.47
190	380.32	95	7.237458	15.72297	22.45353	95	3.46	-6.28	-15.6	-16.42
192	380.33	96	7.187291	15.70608	22.45353	96	3.43	-6.24	-15.57	-16.36
194	380.34	97	7.153846	15.73986	22.52788	97	3.52	-6.22	-15.54	-16.35
196	380.34	98	7.153846	15.73986	22.50929	98	3.51	-6.19	-15.51	-16.3
198	380.35	99	7.120401	15.70608	22.49071	99	3.5	-6.15	-15.47	-16.27
200	380.36	100	7.187291	15.72297	22.49071	100	3.47	-6.13	-15.44	-16.2
202	380.36	101	7.170569	15.70608	22.47212	101	3.51	-6.06	-15.42	-16.13
204	380.37	102	7.187291	15.70608	22.58364	102	3.56	-6.03	-15.38	-16.12
206	380.37	103	7.204013	15.6723	22.60223	103	3.51	-6.03	-15.35	-16.12
208	380.38	104	7.220736	15.68919	22.56506	104	3.51	-6	-15.32	-16.12
210	380.39	105	7.170569	15.75676	22.52788	105	3.54	-6	-15.29	-16.06
212	380.39	106	7.220736	15.68919	22.52788	106	3.55	-5.97	-15.26	-15.99
214	380.4	107	7.204013	15.68919	22.45353	107	3.52	-5.94	-15.23	-15.95
216	380.4	108	7.220736	15.68919	22.49071	108	3.47	-5.94	-15.21	-15.97
218	380.41	109	7.287625	15.75676	22.50929	109	3.5	-5.91	-15.18	-15.93
220	380.42	110	7.304348	15.79054	22.47212	110	3.53	-5.89	-15.16	-15.91
222	380.42	111	7.304348	15.77365	22.49071	111	3.53	-5.86	-15.12	-15.89
224	380.43	112	7.354515	15.80743	22.60223	112	3.5	-5.82	-15.09	-15.87
226	380.43	113	7.337793	15.82432	22.54647	113	3.47	-5.78	-15.07	-15.82
228	380.44	114	7.404682	15.79054	22.52788	114	3.51	-5.8	-15.04	-15.78
230	380.44	115	7.454849	15.80743	22.58364	115	3.51	-5.77	-15.02	-15.75
232	380.45	116	7.521739	15.72297	22.56506	116	3.62	-5.72	-14.99	-15.69
234	380.45	117	7.471572	15.6723	22.54647	117	3.62	-5.7	-14.96	-15.64
236	380.46	118	7.488294	15.75676	22.54647	118	3.59	-5.66	-14.94	-15.58
238	380.47	119	7.471572	15.77365	22.50929	119	3.62	-5.64	-14.9	-15.54
240	380.47	120	7.505017	15.68919	22.50929	120	3.62	-5.6	-14.87	-15.52
242	380.48	121	7.521739	15.73986	22.52788	121	3.54	-5.63	-14.85	-15.51
244	380.48	122	7.555184	15.80743	22.52788	122	3.56	-5.57	-14.82	-15.47
246	380.49	123	7.571906	15.85811	22.56506	123	3.6	-5.57	-14.8	-15.46
248	380.49	124	7.588629	15.875	22.52788	124	3.68	-5.5	-14.78	-15.39
250	380.5	125	7.672241	15.92568	22.60223	125	3.66	-5.49	-14.76	-15.35
252	380.5	126	7.73913	15.92568	22.58364	126	3.68	-5.47	-14.73	-15.32
254	380.51	127	7.789298	15.94257	22.52788	127	3.7	-5.47	-14.71	-15.31
256	380.51	128	7.822742	15.94257	22.58364	128	3.67	-5.42	-14.68	-15.23
258	380.52	129	7.87291	15.95946	22.62082	129	3.65	-5.38	-14.65	-15.21
260	380.52	130	7.889632	15.94257	22.60223	130	3.71	-5.31	-14.63	-15.1
262	380.53	131	7.923077	15.95946	22.62082	131	3.68	-5.32	-14.6	-15.07
264	380.53	132	7.973244	15.99324	22.63941	132	3.71	-5.3	-14.57	-15.04

266	380.54	133	8.040134	16.04392	22.60223	133	3.69	-5.26	-14.55	-15.04
268	380.54	134	8.107023	15.95946	22.63941	134	3.64	-5.31	-14.53	-15.11
270	380.55	135	8.140468	15.94257	22.67658	135	3.66	-5.29	-14.51	-15.06
272	380.55	136	8.190635	15.89189	22.69517	136	3.57	-5.29	-14.48	-15.05
274	380.56	137	8.173913	15.90878	22.63941	137	3.63	-5.24	-14.46	-15
276	380.56	138	8.173913	15.97635	22.65799	138	3.66	-5.17	-14.44	-14.95
278	380.57	139	8.207358	15.97635	22.71375	139	3.7	-5.18	-14.41	-14.91
280	380.57	140	8.29097	15.94257	22.76952	140	3.65	-5.16	-14.39	-14.89
282	380.57	141	8.29097	15.95946	22.71375	141	3.75	-5.13	-14.37	-14.86
284	380.58	142	8.240803	15.82432	22.76952	142	3.67	-5.13	-14.34	-14.84
286	380.58	143	8.22408	15.58784	22.71375	143	3.65	-5.12	-14.32	-14.86
288	380.59	144	8.073579	15.41892	22.65799	144	3.64	-5.09	-14.29	-14.84
290	380.59	145	7.839465	15.35135	22.67658	145	3.65	-5.07	-14.27	-14.82
292	380.59	146	7.638796	15.35135	22.65799	146	3.66	-5.03	-14.25	-14.77
294	380.61	147	7.421405	15.36824	22.62082	147	3.66	-5.01	-14.22	-14.74
296	380.61	148	7.337793	15.46959	22.62082	148	3.7	-4.98	-14.2	-14.68
298	380.62	149	7.404682	15.57095	22.67658	149	3.73	-4.95	-14.18	-14.66
300	380.62	150	7.371237	15.65541	22.62082	150	3.7	-4.95	-14.16	-14.59
302	380.62	151	7.404682	15.68919	22.58364	151	3.68	-4.94	-14.13	-14.58
304	380.62	152	7.438127	15.70608	22.63941	152	3.69	-4.92	-14.12	-14.56
306	380.63	153	7.454849	15.77365	22.67658	153	3.68	-4.9	-14.1	-14.53
308	380.63	154	7.488294	15.75676	22.73234	154	3.75	-4.91	-14.09	-14.54
310	380.64	155	7.538462	15.75676	22.71375	155	3.66	-4.91	-14.06	-14.54
312	380.65	156	7.622074	15.77365	22.69517	156	3.68	-4.88	-14.05	-14.54
314	380.65	157	7.638796	15.82432	22.69517	157	3.64	-4.84	-14.03	-14.48
316	380.65	158	7.672241	15.80743	22.65799	158	3.68	-4.87	-14.02	-14.46
318	380.66	159	7.622074	15.80743	22.65799	159	3.71	-4.83	-13.99	-14.45
320	380.66	160	7.655518	15.73986	22.63941	160	3.7	-4.82	-13.97	-14.43
322	380.66	161	7.73913	15.79054	22.69517	161	3.72	-4.81	-13.95	-14.41
324	380.67	162	7.722408	15.875	22.63941	162	3.71	-4.8	-13.94	-14.4
326	380.67	163	7.789298	15.89189	22.67658	163	3.69	-4.77	-13.93	-14.36
328	380.68	164	7.822742	15.89189	22.75093	164	3.7	-4.79	-13.9	-14.34
330	380.68	165	7.839465	15.84122	22.76952	165	3.7	-4.78	-13.89	-14.32
332	380.69	166	7.822742	15.80743	22.82528	166	3.56	-4.75	-13.86	-14.32
334	380.69	167	7.856187	15.68919	22.7881	167	3.66	-4.73	-13.85	-14.32
336	380.69	168	7.80602	15.50338	22.73234	168	3.7	-4.76	-13.84	-14.36
338	380.69	169	7.655518	15.33446	22.71375	169	3.7	-4.74	-13.83	-14.33
340	380.7	170	7.488294	15.25	22.67658	170	3.73	-4.72	-13.81	-14.29
342	380.7	171	7.38796	15.30068	22.63941	171	3.73	-4.7	-13.79	-14.26
344	380.71	172	7.287625	15.4527	22.63941	172	3.77	-4.72	-13.77	-14.27
346	380.71	173	7.287625	15.58784	22.63941	173	3.76	-4.72	-13.76	-14.25
348	380.71	174	7.254181	15.6723	22.69517	174	3.7	-4.72	-13.75	-14.23
350	380.71	175	7.270903	15.6723	22.69517	175	3.74	-4.72	-13.73	-14.22
352	380.71	176	7.304348	15.70608	22.65799	176	3.72	-4.69	-13.72	-14.2
354	380.72	177	7.371237	15.73986	22.63941	177	3.76	-4.68	-13.72	-14.15

356	380.72	178	7.337793	15.73986	22.60223	178	3.76	-4.69	-13.7	-14.16
358	380.73	179	7.438127	15.80743	22.60223	179	3.68	-4.67	-13.68	-14.13
360	380.72	180	7.521739	15.82432	22.63941	180	3.69	-4.63	-13.66	-14.14
362	380.73	181	7.538462	15.82432	22.65799	181	3.77	-4.63	-13.65	-14.1
364	380.73	182	7.571906	15.84122	22.67658	182	3.7	-4.63	-13.64	-14.09
366	380.73	183	7.538462	15.80743	22.63941	183	3.71	-4.64	-13.63	-14.08
368	380.73	184	7.521739	15.80743	22.65799	184	3.68	-4.63	-13.62	-14.06
370	380.74	185	7.571906	15.80743	22.65799	185	3.71	-4.6	-13.61	-14.04
372	380.74	186	7.605351	15.79054	22.60223	186	3.8	-4.61	-13.59	-14.02
374	380.74	187	7.605351	15.84122	22.65799	187	3.67	-4.6	-13.57	-14
376	380.75	188	7.672241	15.80743	22.71375	188	3.72	-4.58	-13.56	-13.98
378	380.75	189	7.722408	15.79054	22.71375	189	3.73	-4.57	-13.55	-13.95
380	380.76	190	7.73913	15.82432	22.75093	190	3.77	-4.54	-13.53	-13.93
382	380.76	191	7.705686	15.84122	22.71375	191	3.69	-4.52	-13.52	-13.89
384	380.76	192	7.755853	15.875	22.75093	192	3.66	-4.53	-13.51	-13.88
386	380.77	193	7.755853	15.84122	22.69517	193	3.74	-4.52	-13.49	-13.86
388	380.78	194	7.73913	15.82432	22.67658	194	3.75	-4.47	-13.48	-13.81
390	380.78	195	7.688963	15.82432	22.67658	195	3.74	-4.48	-13.46	-13.78
392	380.79	196	7.705686	15.84122	22.67658	196	3.75	-4.49	-13.44	-13.79
394	380.79	197	7.705686	15.85811	22.69517	197	3.76	-4.46	-13.44	-13.76
396	380.8	198	7.688963	15.84122	22.67658	198	3.72	-4.48	-13.43	-13.79
398	380.8	199	7.688963	15.84122	22.73234	199	3.74	-4.45	-13.42	-13.75
400	380.8	200	7.755853	15.84122	22.73234	200	3.75	-4.45	-13.4	-13.73
402	380.81	201	7.722408	15.84122	22.71375	201	3.68	-4.48	-13.39	-13.73
404	380.81	202	7.672241	15.84122	22.73234	202	3.71	-4.46	-13.38	-13.69
406	380.81	203	7.638796	15.80743	22.73234	203	3.71	-4.43	-13.37	-13.69
408	380.81	204	7.688963	15.79054	22.75093	204	3.71	-4.44	-13.35	-13.63
410	380.81	205	7.705686	15.84122	22.71375	205	3.68	-4.45	-13.34	-13.62
412	380.82	206	7.688963	15.84122	22.71375	206	3.79	-4.41	-13.33	-13.61
414	380.82	207	7.655518	15.82432	22.69517	207	3.8	-4.41	-13.32	-13.6
416	380.83	208	7.622074	15.82432	22.69517	208	3.82	-4.42	-13.31	-13.59
418	380.81	209	7.638796	15.82432	22.71375	209	3.75	-4.41	-13.3	-13.56
420	380.83	210	7.605351	15.80743	22.73234	210	3.71	-4.44	-13.29	-13.55
422	380.83	211	7.555184	15.80743	22.75093	211	3.74	-4.39	-13.28	-13.51
424	380.83	212	7.521739	15.84122	22.76952	212	3.79	-4.42	-13.27	-13.51
426	380.84	213	7.555184	15.85811	22.75093	213	3.68	-4.4	-13.26	-13.48
428	380.84	214	7.555184	15.85811	22.73234	214	3.74	-4.38	-13.25	-13.46
430	380.84	215	7.505017	15.85811	22.75093	215	3.71	-4.35	-13.23	-13.43
432	380.84	216	7.505017	15.84122	22.7881	216	3.61	-4.37	-13.22	-13.42
434	380.84	217	7.555184	15.77365	22.69517	217	3.74	-4.34	-13.21	-13.39
436	380.85	218	7.538462	15.82432	22.65799	218	3.72	-4.34	-13.2	-13.39
438	380.85	219	7.555184	15.82432	22.71375	219	3.77	-4.33	-13.19	-13.36
440	380.85	220	7.521739	15.82432	22.65799	220	3.76	-4.33	-13.18	-13.36
442	380.85	221	7.555184	15.82432	22.67658	221	3.74	-4.32	-13.16	-13.35
444	380.86	222	7.538462	15.79054	22.71375	222	3.67	-4.32	-13.16	-13.34

446	380.86	223	7.488294	15.80743	22.73234	223	3.73	-4.33	-13.14	-13.33
448	380.86	224	7.505017	15.80743	22.71375	224	3.69	-4.33	-13.14	-13.31
450	380.86	225	7.454849	15.82432	22.71375	225	3.77	-4.31	-13.13	-13.29
452	380.87	226	7.421405	15.82432	22.69517	226	3.76	-4.28	-13.12	-13.27
454	380.87	227	7.404682	15.84122	22.69517	227	3.75	-4.27	-13.11	-13.26
456	380.87	228	7.421405	15.77365	22.67658	228	3.83	-4.23	-13.1	-13.23
458	380.87	229	7.438127	15.75676	22.65799	229	3.75	-4.24	-13.09	-13.22
460	380.88	230	7.438127	15.70608	22.73234	230	3.73	-4.24	-13.08	-13.2
462	380.88	231	7.371237	15.68919	22.69517	231	3.65	-4.25	-13.07	-13.2
464	380.88	232	7.270903	15.75676	22.75093	232	3.71	-4.2	-13.06	-13.16
466	380.88	233	7.204013	15.80743	22.75093	233	3.76	-4.23	-13.05	-13.17
468	380.88	234	7.187291	15.79054	22.71375	234	3.62	-4.21	-13.04	-13.14
470	380.89	235	7.187291	15.80743	22.67658	235	3.74	-4.2	-13.02	-13.13
472	380.89	236	7.220736	15.80743	22.71375	236	3.7	-4.2	-13.01	-13.11
474	380.89	237	7.220736	15.84122	22.67658	237	3.73	-4.2	-13.01	-13.12
476	380.89	238	7.254181	15.84122	22.67658	238	3.81	-4.17	-13	-13.1
478	380.9	239	7.32107	15.82432	22.65799	239	3.79	-4.19	-12.99	-13.14
480	380.9	240	7.270903	15.80743	22.71375	240	3.71	-4.19	-12.99	-13.12
482	380.9	241	7.304348	15.80743	22.71375	241	3.79	-4.17	-12.97	-13.1
484	380.91	242	7.204013	15.80743	22.73234	242	3.79	-4.18	-12.97	-13.1
486	380.91	243	7.220736	15.80743	22.71375	243	3.77	-4.15	-12.96	-13.06
488	380.91	244	7.254181	15.79054	22.73234	244	3.77	-4.15	-12.95	-13.06
490	380.91	245	7.254181	15.82432	22.73234	245	3.76	-4.17	-12.94	-13.05
492	380.92	246	7.32107	15.875	22.73234	246	3.78	-4.15	-12.94	-13.04
494	380.92	247	7.32107	15.85811	22.7881	247	3.75	-4.16	-12.93	-13.03
496	380.92	248	7.287625	15.82432	22.73234	248	3.73	-4.14	-12.92	-13
498	380.92	249	7.287625	15.79054	22.69517	249	3.7	-4.16	-12.91	-13
500	380.93	250	7.287625	15.82432	22.67658	250	3.71	-4.15	-12.91	-13.02
502	380.93	251	7.287625	15.85811	22.65799	251	3.82	-4.11	-12.9	-13
504	380.93	252	7.337793	15.79054	22.65799	252	3.7	-4.13	-12.89	-12.96
506	380.93	253	7.270903	15.73986	22.69517	253	3.71	-4.13	-12.88	-12.94
508	380.93	254	7.237458	15.80743	22.69517	254	3.68	-4.12	-12.88	-12.9
510	380.94	255	7.237458	15.82432	22.73234	255	3.81	-4.09	-12.86	-12.91
512	380.94	256	7.187291	15.80743	22.73234	256	3.72	-4.1	-12.86	-12.92
514	380.94	257	7.187291	15.82432	22.73234	257	3.72	-4.11	-12.85	-12.88
516	380.95	258	7.187291	15.80743	22.73234	258	3.76	-4.07	-12.84	-12.86
518	380.95	259	7.187291	15.79054	22.75093	259	3.73	-4.1	-12.83	-12.86
520	380.95	260	7.204013	15.79054	22.67658	260	3.71	-4.09	-12.82	-12.85
522	380.95	261	7.204013	15.75676	22.67658	261	3.7	-4.05	-12.81	-12.83
524	380.95	262	7.170569	15.75676	22.67658	262	3.72	-4.05	-12.81	-12.83
526	380.96	263	7.170569	15.72297	22.73234	263	3.89	-4.03	-12.79	-12.79
528	380.97	264	7.170569	15.60473	22.71375	264	3.84	-3.98	-12.78	-12.74
530	380.97	265	7.086957	15.50338	22.67658	265	3.81	-4.01	-12.78	-12.78
532	380.97	266	6.986622	15.53716	22.71375	266	3.76	-4.01	-12.77	-12.78
534	380.98	267	6.869565	15.57095	22.67658	267	3.76	-3.99	-12.76	-12.74

536	380.97	268	6.785953	15.65541	22.73234	268	3.74	-4.01	-12.75	-12.73
538	380.92	269	6.802676	15.62162	22.67658	269	3.71	-3.99	-12.75	-12.71
540	380.9	270	6.819398	15.65541	22.67658	270	3.69	-4	-12.75	-12.73
542	380.91	271	6.83612	15.68919	22.67658	271	3.72	-3.96	-12.74	-12.71
544	380.91	272	6.769231	15.72297	22.71375	272	3.69	-3.95	-12.72	-12.66
546	380.96	273	6.785953	15.70608	22.71375	273	3.76	-3.96	-12.72	-12.66
548	380.99	274	6.886288	15.73986	22.69517	274	3.79	-3.94	-12.7	-12.62
550	380.99	275	6.869565	15.72297	22.71375	275	3.72	-3.93	-12.69	-12.63
552	380.99	276	6.90301	15.75676	22.73234	276	3.76	-3.96	-12.69	-12.64
554	381	277	6.90301	15.73986	22.71375	277	3.69	-3.93	-12.68	-12.64
556	381	278	6.852843	15.72297	22.67658	278	3.79	-3.93	-12.67	-12.63
558	381	279	6.936455	15.73986	22.69517	279	3.73	-3.97	-12.67	-12.63
560	381.01	280	6.919732	15.73986	22.71375	280	3.75	-3.94	-12.66	-12.61
562	381.01	281	6.936455	15.75676	22.69517	281	3.82	-3.93	-12.66	-12.59
564	381.01	282	6.886288	15.79054	22.67658	282	3.81	-3.94	-12.65	-12.59
566	381.01	283	6.919732	15.73986	22.69517	283	3.81	-3.92	-12.65	-12.59
568	381.02	284	6.90301	15.58784	22.69517	284	3.81	-3.93	-12.64	-12.57
570	381.02	285	6.83612	15.55405	22.65799	285	3.86	-3.93	-12.63	-12.57
572	381.02	286	6.752508	15.57095	22.65799	286	3.78	-3.91	-12.62	-12.56
574	381.02	287	6.702341	15.60473	22.63941	287	3.78	-3.93	-12.62	-12.55
576	381.02	288	6.652174	15.60473	22.56506	288	3.71	-3.93	-12.62	-12.57
578	381.03	289	6.618729	15.63851	22.62082	289	3.88	-3.92	-12.61	-12.54
580	381.03	290	6.551839	15.63851	22.65799	290	3.81	-3.92	-12.61	-12.55
582	381.03	291	6.585284	15.63851	22.65799	291	3.81	-3.89	-12.6	-12.5
584	381.04	292	6.618729	15.70608	22.71375	292	3.77	-3.91	-12.6	-12.51
586	381.04	293	6.618729	15.50338	22.65799	293	3.52	-3.93	-12.59	-12.54
588	381.04	294	6.585284	15.16554	22.63941	294	3.06	-3.99	-12.58	-12.64
590	381.04	295	6.284281	14.79392	22.63941	295	3.58	-3.92	-12.58	-12.59
592	381.05	296	5.882943	14.54054	22.52788	296	3.63	-3.89	-12.56	-12.53
594	381.05	297	5.51505	14.43919	22.47212	297	3.73	-3.88	-12.56	-12.5
596	381.05	298	5.280936	14.60811	22.56506	298	3.68	-3.88	-12.56	-12.5
598	381.06	299	5.147157	14.77703	22.54647	299	3.78	-3.86	-12.56	-12.48
600	381.06	300	5.0301	14.94595	22.52788	300	3.7	-3.85	-12.55	-12.48
602	381.06	301	5.0301	15.08108	22.54647	301	3.75	-3.86	-12.55	-12.49
604	381.06	302	5.063545	15.18243	22.52788	302	3.75	-3.86	-12.54	-12.47
606	381.06	303	5.063545	15.18243	22.52788	303	3.76	-3.84	-12.53	-12.46
608	381.07	304	5.147157	15.25	22.50929	304	3.8	-3.83	-12.53	-12.47
610	381.07	305	5.214047	15.23311	22.50929	305	3.73	-3.82	-12.52	-12.43
612	381.07	306	5.297659	15.25	22.52788	306	3.67	-3.82	-12.51	-12.43
614	381.07	307	5.331104	15.30068	22.54647	307	3.7	-3.82	-12.5	-12.43
616	381.07	308	5.431438	15.35135	22.50929	308	3.75	-3.79	-12.49	-12.4
618	381.08	309	5.548495	15.36824	22.52788	309	3.71	-3.77	-12.48	-12.39
620	381.08	310	5.598662	15.41892	22.58364	310	3.8	-3.79	-12.47	-12.43
622	381.08	311	5.665552	15.43581	22.58364	311	3.77	-3.78	-12.47	-12.42
624	381.08	312	5.749164	15.41892	22.63941	312	3.71	-3.78	-12.47	-12.42

626	381.08	313	5.816054	15.43581	22.62082	313	3.81	-3.8	-12.46	-12.42
628	381.09	314	5.799331	15.46959	22.54647	314	3.76	-3.84	-12.47	-12.47
630	381.09	315	5.899666	15.43581	22.56506	315	3.73	-3.82	-12.46	-12.48
632	381.1	316	6	15.40203	22.60223	316	3.76	-3.79	-12.45	-12.42
634	381.1	317	5.966555	15.43581	22.56506	317	3.86	-3.8	-12.44	-12.4
636	381.1	318	5.949833	15.43581	22.60223	318	3.75	-3.78	-12.43	-12.37
638	381.11	319	6.050167	15.48649	22.62082	319	3.77	-3.8	-12.44	-12.37
640	381.12	320	6.06689	15.43581	22.62082	320	3.84	-3.77	-12.43	-12.37
642	381.12	321	6.06689	15.50338	22.62082	321	3.83	-3.77	-12.43	-12.36
644	381.12	322	6.100334	15.52027	22.58364	322	3.85	-3.75	-12.42	-12.33
646	381.12	323	6.117057	15.50338	22.54647	323	3.72	-3.73	-12.41	-12.33
648	381.12	324	6.117057	15.52027	22.58364	324	3.71	-3.77	-12.4	-12.34
650	381.13	325	6.083612	15.57095	22.63941	325	3.69	-3.75	-12.4	-12.36
652	381.13	326	6.06689	15.55405	22.56506	326	3.7	-3.76	-12.4	-12.38
654	381.13	327	6.100334	15.52027	22.60223	327	3.75	-3.74	-12.39	-12.35
656	381.13	328	6.167224	15.53716	22.58364	328	3.77	-3.72	-12.38	-12.32
658	381.13	329	6.150502	15.46959	22.58364	329	3.73	-3.73	-12.37	-12.31
660	381.13	330	6.200669	15.48649	22.60223	330	3.76	-3.73	-12.36	-12.3
662	381.14	331	6.217391	15.52027	22.60223	331	3.77	-3.71	-12.36	-12.31
664	381.14	332	6.200669	15.53716	22.58364	332	3.69	-3.74	-12.36	-12.35
666	381.14	333	6.234114	15.48649	22.52788	333	3.82	-3.74	-12.35	-12.37
668	381.15	334	6.234114	15.48649	22.58364	334	3.76	-3.72	-12.35	-12.34
670	381.15	335	6.250836	15.50338	22.62082	335	3.76	-3.73	-12.34	-12.33
672	381.15	336	6.183946	15.57095	22.58364	336	3.78	-3.72	-12.33	-12.34
674	381.15	337	6.217391	15.52027	22.56506	337	3.77	-3.72	-12.33	-12.31
676	381.16	338	6.234114	15.50338	22.56506	338	3.77	-3.71	-12.33	-12.27
678	381.16	339	6.183946	15.46959	22.60223	339	3.72	-3.7	-12.32	-12.26
680	381.16	340	6.200669	15.53716	22.56506	340	3.77	-3.69	-12.32	-12.27
682	381.17	341	6.217391	15.52027	22.58364	341	3.79	-3.72	-12.31	-12.28
684	381.17	342	6.200669	15.48649	22.62082	342	3.81	-3.71	-12.32	-12.29
686	381.17	343	6.200669	15.52027	22.62082	343	3.75	-3.71	-12.32	-12.28
688	381.17	344	6.284281	15.55405	22.60223	344	3.78	-3.7	-12.3	-12.27
690	381.18	345	6.267559	15.48649	22.58364	345	3.87	-3.71	-12.3	-12.28
692	381.18	346	6.301003	15.50338	22.63941	346	3.71	-3.72	-12.31	-12.28
694	381.18	347	6.301003	15.52027	22.67658	347	3.76	-3.69	-12.3	-12.24
696	381.19	348	6.250836	15.55405	22.62082	348	3.78	-3.69	-12.29	-12.24
698	381.18	349	6.250836	15.57095	22.62082	349	3.84	-3.71	-12.29	-12.25
700	381.19	350	6.217391	15.55405	22.60223	350	3.75	-3.69	-12.28	-12.27
702	381.19	351	6.234114	15.55405	22.62082	351	3.87	-3.67	-12.28	-12.27
704	381.2	352	6.250836	15.50338	22.58364	352	3.81	-3.68	-12.28	-12.28
706	381.2	353	6.250836	15.50338	22.60223	353	3.83	-3.68	-12.28	-12.26
708	381.21	354	6.267559	15.55405	22.56506	354	3.88	-3.68	-12.28	-12.27
710	381.21	355	6.250836	15.58784	22.62082	355	3.81	-3.69	-12.27	-12.26
712	381.21	356	6.284281	15.60473	22.54647	356	3.83	-3.67	-12.26	-12.24
714	381.21	357	6.317726	15.50338	22.58364	357	3.79	-3.67	-12.25	-12.23

716	381.21	358	6.334448	15.50338	22.63941	358	3.77	-3.66	-12.25	-12.2
718	381.22	359	6.334448	15.48649	22.65799	359	3.77	-3.67	-12.24	-12.25
720	381.23	360	6.367893	15.50338	22.60223	360	3.73	-3.66	-12.24	-12.21
722	381.22	361	6.334448	15.46959	22.60223	361	3.85	-3.64	-12.23	-12.2
724	381.22	362	6.301003	15.4527	22.65799	362	3.87	-3.68	-12.23	-12.21
726	381.23	363	6.317726	15.50338	22.63941	363	3.82	-3.67	-12.23	-12.22
728	381.23	364	6.301003	15.58784	22.62082	364	3.8	-3.65	-12.22	-12.2
730	381.23	365	6.284281	15.53716	22.58364	365	3.83	-3.67	-12.22	-12.2
732	381.23	366	6.317726	15.50338	22.50929	366	3.81	-3.65	-12.21	-12.2
734	381.23	367	6.351171	15.52027	22.58364	367	3.77	-3.66	-12.2	-12.19
736	381.23	368	6.301003	15.50338	22.58364	368	3.78	-3.69	-12.2	-12.21
738	381.24	369	6.317726	15.48649	22.62082	369	3.78	-3.67	-12.2	-12.19
740	381.24	370	6.317726	15.31757	22.52788	370	3.77	-3.66	-12.2	-12.17
742	381.25	371	6.217391	15.14865	22.52788	371	3.75	-3.66	-12.2	-12.15
744	381.25	372	5.983278	15.11486	22.60223	372	3.84	-3.66	-12.19	-12.13
746	381.26	373	5.732441	15.13176	22.56506	373	3.82	-3.67	-12.19	-12.13
748	381.26	374	5.648829	15.19932	22.54647	374	3.75	-3.65	-12.19	-12.13
750	381.26	375	5.548495	15.21622	22.52788	375	3.84	-3.62	-12.19	-12.12
752	381.26	376	5.498328	15.26689	22.54647	376	3.77	-3.63	-12.19	-12.11
754	381.26	377	5.548495	15.28378	22.56506	377	3.72	-3.62	-12.19	-12.1
756	381.27	378	5.531773	15.33446	22.54647	378	3.77	-3.6	-12.18	-12.08
758	381.27	379	5.548495	15.33446	22.52788	379	3.82	-3.62	-12.18	-12.09
760	381.27	380	5.598662	15.35135	22.47212	380	3.73	-3.61	-12.18	-12.11
762	381.28	381	5.682274	15.36824	22.49071	381	3.79	-3.61	-12.18	-12.07
764	381.28	382	5.749164	15.35135	22.56506	382	3.74	-3.61	-12.17	-12.09
766	381.28	383	5.782609	15.31757	22.58364	383	3.82	-3.62	-12.16	-12.11
768	381.28	384	5.782609	15.36824	22.52788	384	3.77	-3.63	-12.16	-12.09
770	381.28	385	5.715719	15.18243	22.52788	385	3.83	-3.61	-12.16	-12.1
772	381.28	386	5.481605	14.72635	22.54647	386	3.78	-3.57	-12.15	-12.07
774	381.29	387	5.147157	14.27027	22.49071	387	3.82	-3.56	-12.14	-12.08
776	381.29	388	4.628763	13.94932	22.41636	388	3.84	-3.56	-12.14	-12.09
778	381.3	389	4.110368	13.88176	22.30483	389	3.79	-3.61	-12.13	-12.08
780	381.3	390	3.859532	14.08446	22.26766	390	3.88	-3.56	-12.13	-12.05
782	381.3	391	3.759197	14.28716	22.23048	391	3.89	-3.54	-12.13	-12.05
784	381.3	392	3.692308	14.4223	22.23048	392	3.86	-3.55	-12.13	-12.06
786	381.3	393	3.742475	14.54054	22.28625	393	3.8	-3.58	-12.13	-12.06
788	381.3	394	3.692308	14.64189	22.23048	394	3.82	-3.56	-12.13	-12.04
790	381.31	395	3.77592	14.77703	22.24907	395	3.83	-3.58	-12.13	-12.01
792	381.3	396	3.909699	14.81081	22.36059	396	3.78	-3.56	-12.13	-12.05
794	381.31	397	4.076923	14.87838	22.34201	397	3.86	-3.54	-12.13	-12.04
796	381.31	398	4.210702	14.92905	22.37918	398	3.94	-3.55	-12.13	-12.06
798	381.31	399	4.377926	14.97973	22.39777	399	3.85	-3.53	-12.12	-12.04
800	381.32	400	4.494983	14.97973	22.32342	400	3.83	-3.51	-12.12	-12.01
802	381.32	401	4.578595	15.08108	22.30483	401	3.84	-3.52	-12.12	-12.02
804	381.32	402	4.61204	15.11486	22.34201	402	3.82	-3.52	-12.11	-12

806	381.33	403	4.645485	15.08108	22.37918	403	3.8	-3.51	-12.12	-12.01
808	381.33	404	4.729097	15.09797	22.39777	404	3.81	-3.54	-12.12	-12.02
810	381.34	405	4.829431	15.13176	22.39777	405	3.82	-3.52	-12.12	-11.99
812	381.34	406	4.913043	15.19932	22.34201	406	3.84	-3.51	-12.11	-12
814	381.35	407	4.963211	15.19932	22.36059	407	3.82	-3.52	-12.12	-12.01
816	381.34	408	4.979933	15.19932	22.49071	408	3.83	-3.52	-12.11	-12.01
818	381.34	409	5.063545	15.19932	22.47212	409	3.86	-3.52	-12.11	-12.03
820	381.34	410	5.180602	15.25	22.43494	410	3.79	-3.51	-12.1	-12.01
822	381.35	411	5.247492	15.26689	22.45353	411	3.79	-3.49	-12.09	-11.99
824	381.34	412	5.314381	15.26689	22.41636	412	3.8	-3.5	-12.09	-11.98
826	381.35	413	5.364548	15.26689	22.39777	413	3.88	-3.5	-12.09	-11.95
828	381.35	414	5.364548	15.19932	22.41636	414	3.88	-3.51	-12.08	-11.97
830	381.35	415	5.397993	15.19932	22.47212	415	3.8	-3.51	-12.08	-11.98
832	381.36	416	5.414716	15.18243	22.39777	416	3.87	-3.51	-12.08	-11.97
834	381.36	417	5.397993	15.21622	22.47212	417	3.81	-3.52	-12.08	-11.99
836	381.36	418	5.448161	15.26689	22.50929	418	3.87	-3.51	-12.08	-11.98
838	381.37	419	5.531773	15.19932	22.45353	419	3.84	-3.53	-12.08	-12.01
840	381.38	420	5.548495	15.26689	22.43494	420	3.85	-3.51	-12.07	-11.99
842	381.37	421	5.498328	15.26689	22.37918	421	3.79	-3.5	-12.07	-11.94
844	381.38	422	5.498328	15.30068	22.41636	422	3.8	-3.5	-12.07	-11.96
846	381.38	423	5.531773	15.31757	22.41636	423	3.8	-3.48	-12.06	-11.93
848	381.38	424	5.565217	15.26689	22.43494	424	3.83	-3.51	-12.06	-11.93
850	381.39	425	5.565217	15.33446	22.49071	425	3.81	-3.49	-12.05	-11.89
852	381.39	426	5.598662	15.30068	22.45353	426	3.74	-3.5	-12.05	-11.93
854	381.4	427	5.648829	15.33446	22.45353	427	3.9	-3.52	-12.05	-11.97
856	381.4	428	5.615385	15.36824	22.43494	428	3.88	-3.53	-12.05	-12
858	381.4	429	5.648829	15.35135	22.45353	429	3.89	-3.54	-12.05	-11.96
860	381.4	430	5.665552	15.35135	22.49071	430	3.88	-3.52	-12.05	-11.96
862	381.4	431	5.732441	15.35135	22.50929	431	3.87	-3.52	-12.06	-11.98
864	381.41	432	5.715719	15.38514	22.52788	432	3.91	-3.54	-12.06	-11.97
866	381.41	433	5.698997	15.36824	22.52788	433	3.92	-3.53	-12.06	-11.94
868	381.41	434	5.698997	15.41892	22.50929	434	3.77	-3.57	-12.06	-11.98
870	381.41	435	5.682274	15.40203	22.49071	435	3.8	-3.6	-12.05	-12.04
872	381.41	436	5.715719	15.41892	22.47212	436	3.9	-3.57	-12.04	-11.99
874	381.42	437	5.715719	15.43581	22.43494	437	3.87	-3.58	-12.05	-12.01
876	381.42	438	5.665552	15.4527	22.39777	438	3.85	-3.54	-12.04	-11.98
878	381.42	439	5.665552	15.41892	22.47212	439	3.91	-3.56	-12.04	-11.99
880	381.42	440	5.749164	15.38514	22.47212	440	3.9	-3.56	-12.04	-11.98
882	381.43	441	5.765886	15.38514	22.45353	441	3.87	-3.56	-12.04	-11.98
884	381.43	442	5.715719	15.38514	22.45353	442	3.86	-3.55	-12.04	-11.98
886	381.43	443	5.682274	15.36824	22.45353	443	3.9	-3.54	-12.04	-11.97
888	381.44	444	5.682274	15.33446	22.45353	444	3.84	-3.54	-12.04	-11.96
890	381.44	445	5.715719	15.38514	22.50929	445	3.87	-3.55	-12.04	-11.98
892	381.44	446	5.715719	15.36824	22.47212	446	3.86	-3.55	-12.04	-12
894	381.45	447	5.749164	15.33446	22.45353	447	3.83	-3.55	-12.04	-12

896	381.45	448	5.782609	15.36824	22.45353	448	3.75	-3.58	-12.04	-12.01
898	381.45	449	5.765886	15.35135	22.45353	449	3.87	-3.59	-12.04	-12
900	381.45	450	5.749164	15.35135	22.41636	450	3.89	-3.57	-12.04	-12
902	381.46	451	5.749164	15.35135	22.49071	451	3.91	-3.55	-12.03	-11.98
904	381.46	452	5.782609	15.36824	22.49071	452	3.89	-3.59	-12.03	-12
906	381.45	453	5.799331	15.40203	22.49071	453	3.91	-3.56	-12.02	-12
908	381.46	454	5.816054	15.35135	22.50929	454	3.94	-3.56	-12.02	-11.98
910	381.46	455	5.765886	15.38514	22.50929	455	3.94	-3.55	-12.02	-11.96
912	381.47	456	5.682274	15.35135	22.49071	456	3.79	-3.58	-12.02	-11.99
914	381.47	457	5.665552	15.36824	22.45353	457	3.93	-3.54	-12.02	-11.97
916	381.47	458	5.749164	15.30068	22.45353	458	3.85	-3.57	-12.02	-11.97
918	381.47	459	5.799331	15.31757	22.47212	459	3.89	-3.57	-12.03	-11.96
920	381.48	460	5.866221	15.33446	22.52788	460	3.97	-3.55	-12.02	-11.96
922	381.48	461	5.832776	15.33446	22.50929	461	3.96	-3.55	-12.03	-11.98
924	381.48	462	5.816054	15.36824	22.45353	462	3.92	-3.54	-12.02	-11.96
926	381.48	463	5.849498	15.38514	22.45353	463	3.87	-3.57	-12.03	-11.98
928	381.48	464	5.782609	15.36824	22.41636	464	3.81	-3.61	-12.02	-12
930	381.48	465	5.782609	15.36824	22.41636	465	3.86	-3.58	-12.02	-12
932	381.48	466	5.782609	15.40203	22.47212	466	3.86	-3.56	-12.02	-11.97
934	381.49	467	5.832776	15.43581	22.50929	467	3.93	-3.55	-12.02	-11.95
936	381.5	468	5.849498	15.36824	22.49071	468	3.91	-3.57	-12.02	-11.98
938	381.5	469	5.866221	15.31757	22.43494	469	3.9	-3.53	-12.01	-11.96
940	381.5	470	5.899666	15.30068	22.41636	470	3.84	-3.56	-12.01	-11.94
942	381.5	471	5.882943	15.33446	22.45353	471	3.92	-3.55	-12.01	-11.93
944	381.51	472	5.916388	15.38514	22.50929	472	3.92	-3.56	-12	-11.92
946	381.51	473	5.882943	15.40203	22.50929	473	3.88	-3.52	-12	-11.92
948	381.52	474	5.866221	15.38514	22.50929	474	3.89	-3.53	-12	-11.92
950	381.53	475	5.882943	15.33446	22.47212	475	3.97	-3.53	-12	-11.91
952	381.53	476	5.849498	15.33446	22.49071	476	3.97	-3.52	-12	-11.93
954	381.54	477	5.849498	15.33446	22.49071	477	3.84	-3.54	-12.01	-11.94
956	381.53	478	5.882943	15.31757	22.43494	478	3.92	-3.51	-12	-11.92
958	381.54	479	5.916388	15.33446	22.47212	479	3.87	-3.52	-12	-11.9
960	381.54	480	5.983278	15.36824	22.43494	480	3.85	-3.53	-12	-11.94
962	381.54	481	5.93311	15.38514	22.52788	481	3.9	-3.54	-12	-11.92
964	381.55	482	5.882943	15.41892	22.49071	482	3.92	-3.53	-12	-11.94
966	381.53	483	5.882943	15.40203	22.43494	483	3.99	-3.51	-12	-11.93
968	381.54	484	5.966555	15.41892	22.43494	484	3.71	-3.59	-11.99	-11.96
970	381.54	485	5.983278	15.36824	22.41636	485	3.86	-3.54	-11.98	-11.94
972	381.55	486	5.949833	15.35135	22.39777	486	3.93	-3.54	-11.98	-11.93
974	381.54	487	5.882943	15.31757	22.49071	487	3.85	-3.54	-11.98	-11.91
976	381.54	488	5.949833	15.35135	22.39777	488	3.89	-3.53	-11.97	-11.88
	381.57	489	5.916388	15.33446	22.34201	489	3.83	-3.53	-11.97	-11.88
		490	5.899666	15.35135	22.41636	490	3.89	-3.53	-11.96	-11.89
		491	5.882943	15.33446	22.49071	491	3.87	-3.55	-11.97	-11.89
		492	5.799331	15.30068	22.45353	492	3.91	-3.54	-11.97	-11.91

493	5.732441	15.31757	22.45353	493	3.93	-3.54	-11.97	-11.9
494	5.749164	15.35135	22.43494	494	3.9	-3.53	-11.97	-11.86
495	5.682274	15.38514	22.45353	495	3.87	-3.53	-11.97	-11.86
496	5.682274	15.36824	22.45353	496	3.91	-3.54	-11.96	-11.86
497	5.715719	15.36824	22.54647	497	3.91	-3.52	-11.97	-11.86
498	5.749164	15.33446	22.52788	498	3.89	-3.53	-11.97	-11.85
499	5.765886	15.41892	22.45353	499	3.86	-3.51	-11.96	-11.84
500	5.765886	15.36824	22.47212	500	3.85	-3.54	-11.96	-11.85
501	5.682274	15.23311	22.45353	501	3.85	-3.53	-11.96	-11.86
502	5.548495	15.16554	22.49071	502	3.85	-3.53	-11.95	-11.84
503	5.464883	15.25	22.47212	503	3.91	-3.49	-11.95	-11.84
504	5.431438	15.28378	22.34201	504	3.9	-3.51	-11.96	-11.84
505	5.498328	15.28378	22.37918	505	3.87	-3.53	-11.96	-11.84
506	5.481605	15.30068	22.34201	506	3.9	-3.52	-11.95	-11.83
507	5.464883	15.33446	22.39777	507	3.84	-3.53	-11.96	-11.86
508	5.481605	15.36824	22.45353	508	3.82	-3.54	-11.96	-11.84
509	5.448161	15.33446	22.47212	509	3.78	-3.54	-11.96	-11.82
510	5.481605	15.31757	22.43494	510	3.86	-3.54	-11.95	-11.8
511	5.51505	15.38514	22.41636	511	3.75	-3.53	-11.94	-11.79
512	5.481605	15.43581	22.37918	512	3.82	-3.49	-11.95	-11.81
513	5.548495	15.48649	22.43494	513	3.95	-3.52	-11.96	-11.82
514	5.565217	15.46959	22.43494	514	3.97	-3.53	-11.95	-11.81
515	5.58194	15.46959	22.47212	515	3.86	-3.54	-11.95	-11.81
516	5.565217	15.4527	22.49071	516	3.9	-3.53	-11.95	-11.8
517	5.548495	15.43581	22.45353	517	3.89	-3.48	-11.94	-11.78
518	5.598662	15.41892	22.45353	518	3.81	-3.52	-11.94	-11.78
519	5.58194	15.38514	22.47212	519	3.83	-3.51	-11.94	-11.77
520	5.632107	15.40203	22.45353	520	3.84	-3.49	-11.94	-11.75
521	5.665552	15.43581	22.37918	521	3.88	-3.49	-11.94	-11.76
522	5.615385	15.36824	22.39777	522	3.87	-3.51	-11.93	-11.77
523	5.598662	15.30068	22.36059	523	3.81	-3.53	-11.94	-11.79
524	5.498328	15.23311	22.36059	524	3.85	-3.52	-11.94	-11.8
525	5.364548	15.11486	22.36059	525	3.94	-3.51	-11.93	-11.79
526	5.080268	14.79392	22.36059	526	4	-3.46	-11.92	-11.78
527	4.67893	14.47297	22.28625	527	3.87	-3.49	-11.92	-11.79
528	4.327759	14.4223	22.2119	528	3.93	-3.47	-11.92	-11.8
529	4.026756	14.47297	22.17472	529	3.93	-3.48	-11.92	-11.8
530	3.809365	14.52365	22.2119	530	3.92	-3.48	-11.92	-11.78
531	3.725753	14.57432	22.24907	531	3.94	-3.47	-11.92	-11.78
532	3.608696	14.65878	22.28625	532	3.86	-3.48	-11.92	-11.79
533	3.70903	14.74324	22.19331	533	3.93	-3.47	-11.93	-11.81
534	3.759197	14.8277	22.13755	534	3.95	-3.48	-11.93	-11.81
535	3.809365	14.87838	22.17472	535	3.9	-3.47	-11.93	-11.8
536	3.943144	14.87838	22.17472	536	3.89	-3.48	-11.93	-11.81
537	4.010033	14.91216	22.15613	537	3.9	-3.47	-11.93	-11.8

538	4.060201	14.96284	22.13755	538	3.91	-3.47	-11.93	-11.81
539	4.227425	15.09797	22.23048	539	4.02	-3.46	-11.93	-11.79
540	4.344482	15.18243	22.28625	540	4.02	-3.49	-11.94	-11.79
541	4.394649	15.14865	22.26766	541	3.65	-3.51	-11.93	-11.85
542	4.344482	14.92905	22.23048	542	3.77	-3.51	-11.93	-11.84
543	4.26087	14.72635	22.2119	543	3.93	-3.51	-11.94	-11.83
544	4.227425	14.81081	22.2119	544	3.91	-3.48	-11.94	-11.84
545	4.277592	14.91216	22.2119	545	3.94	-3.5	-11.94	-11.86
546	4.311037	14.97973	22.2119	546	3.92	-3.53	-11.94	-11.85
547	4.411371	15.08108	22.19331	547	3.87	-3.5	-11.94	-11.84
548	4.494983	15.14865	22.15613	548	3.95	-3.53	-11.94	-11.84
549	4.494983	15.14865	22.2119	549	3.97	-3.5	-11.94	-11.83
550	4.545151	15.09797	22.2119	550	4.01	-3.52	-11.94	-11.84
551	4.61204	15.13176	22.23048	551	3.91	-3.55	-11.95	-11.85
552	4.628763	15.16554	22.30483	552	3.85	-3.53	-11.95	-11.86
553	4.645485	15.16554	22.32342	553	3.94	-3.53	-11.94	-11.84
554	4.695652	15.18243	22.32342	554	3.89	-3.55	-11.95	-11.83
555	4.745819	15.25	22.28625	555	3.9	-3.53	-11.94	-11.84
556	4.846154	15.25	22.32342	556	3.86	-3.55	-11.95	-11.83
557	4.913043	15.25	22.36059	557	3.87	-3.52	-11.95	-11.84
558	4.963211	15.21622	22.28625	558	3.93	-3.54	-11.94	-11.85
559	5.013378	15.25	22.28625	559	3.96	-3.52	-11.95	-11.85
560	4.996656	15.18243	22.32342	560	3.94	-3.5	-11.94	-11.83
561	4.963211	15.03041	22.32342	561	3.94	-3.52	-11.95	-11.84
562	4.812709	14.92905	22.30483	562	3.96	-3.52	-11.95	-11.84
563	4.67893	14.99662	22.26766	563	3.92	-3.5	-11.94	-11.83
564	4.645485	15.03041	22.23048	564	3.94	-3.52	-11.94	-11.83
565	4.662207	15.06419	22.24907	565	3.91	-3.53	-11.93	-11.83
566	4.712375	15.16554	22.2119	566	3.94	-3.52	-11.94	-11.83
567	4.779264	15.14865	22.28625	567	4.01	-3.48	-11.93	-11.82
568	4.829431	15.18243	22.28625	568	3.97	-3.47	-11.93	-11.82
569	4.879599	15.19932	22.32342	569	4.03	-3.5	-11.93	-11.8
570	4.946488	15.21622	22.30483	570	3.91	-3.5	-11.93	-11.81
571	5.0301	15.30068	22.28625	571	3.87	-3.49	-11.93	-11.8
572	5.046823	15.28378	22.30483	572	3.88	-3.49	-11.93	-11.81
573	5.113712	15.21622	22.26766	573	3.88	-3.5	-11.93	-11.82
574	5.180602	15.21622	22.30483	574	3.92	-3.49	-11.93	-11.83
575	5.214047	15.26689	22.34201	575	3.99	-3.52	-11.93	-11.84
576	5.247492	15.23311	22.28625	576	4.04	-3.48	-11.92	-11.83
577	5.314381	15.19932	22.24907	577	3.97	-3.49	-11.92	-11.83
578	5.364548	15.23311	22.30483	578	3.96	-3.48	-11.92	-11.84
579	5.397993	15.26689	22.30483	579	4.03	-3.48	-11.92	-11.82
580	5.397993	15.30068	22.26766	580	4	-3.48	-11.92	-11.82
581	5.414716	15.23311	22.28625	581	4.03	-3.51	-11.92	-11.82
582	5.364548	15.16554	22.30483	582	3.98	-3.5	-11.92	-11.82

583	5.264214	15.06419	22.28625	583	3.98	-3.51	-11.91	-11.82
584	5.080268	14.96284	22.28625	584	3.99	-3.48	-11.92	-11.82
585	4.862876	14.81081	22.24907	585	4	-3.48	-11.92	-11.82
586	4.695652	14.69257	22.17472	586	4.04	-3.47	-11.91	-11.8
587	4.528428	14.65878	22.17472	587	4.06	-3.47	-11.92	-11.81
588	4.494983	14.64189	22.19331	588	4.06	-3.5	-11.92	-11.82
589	4.444816	14.625	22.2119	589	3.98	-3.5	-11.93	-11.83
590	4.277592	14.57432	22.19331	590	4	-3.48	-11.92	-11.82
591	4.143813	14.59122	22.17472	591	3.93	-3.49	-11.92	-11.82
592	4.093645	14.60811	22.17472	592	3.93	-3.49	-11.91	-11.81
593	4.010033	14.57432	22.11896	593	3.99	-3.5	-11.91	-11.81
594	3.959866	14.64189	22.10037	594	3.96	-3.5	-11.91	-11.82
595	3.909699	14.69257	22.11896	595	4.01	-3.48	-11.91	-11.8
596	3.959866	14.77703	22.13755	596	4	-3.52	-11.92	-11.82
597	4.043478	14.79392	22.15613	597	3.89	-3.52	-11.93	-11.84
598	4.093645	14.81081	22.13755	598	3.95	-3.51	-11.92	-11.83
599	4.177258	14.91216	22.13755	599	3.94	-3.5	-11.93	-11.84
600	4.210702	14.97973	22.11896	600	3.89	-3.51	-11.94	-11.84
601	4.244147	14.92905	22.15613	601	3.84	-3.5	-11.93	-11.81
602	4.377926	14.96284	22.17472	602	3.94	-3.51	-11.94	-11.85
603	4.461538	14.87838	22.13755	603	3.89	-3.5	-11.94	-11.84
604	4.428094	14.79392	22.0632	604	4.03	-3.54	-11.93	-11.84
605	4.444816	14.8277	22.10037	605	4.01	-3.49	-11.93	-11.85
606	4.411371	14.87838	22.11896	606	3.95	-3.52	-11.93	-11.84
607	4.377926	14.94595	22.15613	607	3.9	-3.53	-11.93	-11.84
608	4.327759	14.94595	22.15613	608	3.95	-3.52	-11.93	-11.86
609	4.327759	14.96284	22.15613	609	3.97	-3.52	-11.93	-11.85
610	4.394649	14.92905	22.10037	610	3.97	-3.51	-11.93	-11.86
611	4.428094	14.99662	22.02602	611	3.99	-3.5	-11.93	-11.86
612	4.377926	14.94595	22.13755	612	3.99	-3.53	-11.93	-11.86
613	4.411371	14.89527	22.2119	613	4	-3.53	-11.92	-11.86
614	4.428094	14.87838	22.17472	614	3.98	-3.52	-11.93	-11.87
615	4.444816	14.8277	22.19331	615	4.01	-3.52	-11.93	-11.86
616	4.461538	14.86149	22.15613	616	3.98	-3.52	-11.92	-11.86
617	4.478261	14.89527	22.15613	617	4.01	-3.51	-11.92	-11.86
618	4.511706	14.87838	22.19331	618	3.99	-3.5	-11.92	-11.84
619	4.394649	14.79392	22.17472	619	4.04	-3.49	-11.93	-11.84
620	4.244147	14.64189	22.10037	620	4.02	-3.49	-11.92	-11.79
621	4.076923	14.52365	22.10037	621	3.96	-3.5	-11.93	-11.8
622	3.876254	14.50676	22.0632	622	3.99	-3.48	-11.92	-11.81
623	3.725753	14.47297	21.98885	623	3.94	-3.49	-11.93	-11.79
624	3.809365	14.38851	22.0632	624	4.01	-3.49	-11.94	-11.8
625	3.725753	14.38851	22.10037	625	3.96	-3.5	-11.93	-11.81
626	3.608696	14.40541	22.11896	626	3.93	-3.49	-11.94	-11.81
627	3.575251	14.4223	22.10037	627	3.91	-3.5	-11.94	-11.79

628	3.474916	14.40541	22.0632	628	3.98	-3.48	-11.93	-11.81
629	3.424749	14.37162	22.04461	629	3.97	-3.47	-11.93	-11.82
630	3.458194	14.33784	22.00743	630	3.96	-3.5	-11.94	-11.81
631	3.474916	14.4223	21.95167	631	3.94	-3.49	-11.94	-11.8
632	3.424749	14.50676	21.97026	632	4.01	-3.49	-11.95	-11.83
633	3.408027	14.52365	21.95167	633	4.08	-3.48	-11.94	-11.82
634	3.408027	14.48986	22.02602	634	4.08	-3.48	-11.94	-11.81
635	3.458194	14.43919	21.98885	635	3.88	-3.48	-11.95	-11.79
636	3.474916	14.33784	21.97026	636	3.91	-3.48	-11.94	-11.78
637	3.391304	14.32095	22.02602	637	3.83	-3.46	-11.94	-11.78
638	3.324415	14.38851	21.98885	638	3.85	-3.48	-11.94	-11.82
639	3.374582	14.47297	21.98885	639	3.9	-3.49	-11.94	-11.82
640	3.408027	14.60811	21.95167	640	4.02	-3.48	-11.94	-11.84
641	3.474916	14.72635	21.98885	641	3.95	-3.47	-11.94	-11.83
642	3.591973	14.74324	22.04461	642	3.99	-3.47	-11.94	-11.82
643	3.759197	14.8277	22.02602	643	3.92	-3.46	-11.94	-11.81
644	3.859532	14.86149	21.97026	644	3.93	-3.49	-11.95	-11.83
645	3.892977	14.89527	21.97026	645	3.95	-3.48	-11.94	-11.85
646	4.010033	14.91216	22.00743	646	3.95	-3.49	-11.95	-11.85
647	4.076923	15.01351	22.04461	647	3.96	-3.49	-11.95	-11.85
648	4.160535	15.03041	22.08178	648	3.99	-3.48	-11.96	-11.85
649	4.277592	15.01351	22.13755	649	4.03	-3.53	-11.96	-11.85
650	4.411371	15.08108	22.10037	650	4.03	-3.5	-11.96	-11.82
651	4.428094	15.08108	22.08178	651	4.03	-3.52	-11.95	-11.83
652	4.461538	15.09797	22.08178	652	4.13	-3.49	-11.95	-11.82
653	4.528428	15.09797	22.08178	653	3.94	-3.49	-11.94	-11.82
654	4.61204	15.16554	22.08178	654	4.01	-3.52	-11.95	-11.82
655	4.67893	15.11486	22.10037	655	3.96	-3.51	-11.94	-11.83
656	4.712375	15.11486	22.10037	656	3.94	-3.51	-11.94	-11.83
657	4.712375	15.11486	22.08178	657	3.92	-3.51	-11.94	-11.82
658	4.729097	15.14865	22.08178	658	3.97	-3.52	-11.94	-11.83
659	4.779264	15.11486	22.11896	659	3.97	-3.53	-11.94	-11.84
660	4.795987	15.13176	22.10037	660	3.98	-3.52	-11.94	-11.82
661	4.795987	15.16554	22.10037	661	4.04	-3.51	-11.94	-11.82
662	4.779264	15.16554	22.15613	662	3.97	-3.54	-11.93	-11.83
663	4.846154	15.13176	22.13755	663	3.95	-3.51	-11.94	-11.81
664	4.862876	14.92905	22.11896	664	3.98	-3.49	-11.94	-11.8
665	4.762542	14.77703	22.13755	665	4	-3.51	-11.94	-11.8
666	4.628763	14.8277	22.0632	666	3.92	-3.5	-11.93	-11.8
667	4.528428	14.86149	22.04461	667	3.9	-3.51	-11.94	-11.83
668	4.494983	14.92905	22.10037	668	3.97	-3.5	-11.94	-11.84
669	4.545151	14.99662	22.10037	669	3.95	-3.49	-11.93	-11.83
670	4.578595	15.06419	22.08178	670	3.94	-3.5	-11.93	-11.81
671	4.595318	14.97973	22.11896	671	3.85	-3.48	-11.94	-11.84
672	4.494983	14.65878	22.11896	672	3.86	-3.48	-11.93	-11.87

673	4.26087	14.38851	22.00743	673	4.02	-3.47	-11.93	-11.85
674	4.043478	14.32095	21.98885	674	3.94	-3.49	-11.93	-11.82
675	3.809365	14.27027	22.04461	675	3.95	-3.47	-11.92	-11.83
676	3.541806	14.03378	21.97026	676	3.98	-3.49	-11.92	-11.82
677	3.240803	13.83108	21.89591	677	4.03	-3.47	-11.93	-11.84
678	2.923077	13.86486	21.78439	678	3.97	-3.47	-11.93	-11.84
679	2.672241	13.89865	21.84015	679	3.88	-3.48	-11.93	-11.8
680	2.672241	13.98311	21.84015	680	4	-3.5	-11.94	-11.84
681	2.655518	14.10135	21.89591	681	3.95	-3.48	-11.95	-11.84
682	2.638796	14.2027	21.87732	682	4.06	-3.49	-11.94	-11.83
683	2.655518	14.2027	21.89591	683	4.02	-3.48	-11.94	-11.85
684	2.755853	14.21959	21.87732	684	4.09	-3.5	-11.94	-11.84
685	2.822742	14.32095	21.87732	685	4.06	-3.52	-11.94	-11.86
686	2.87291	14.37162	21.9145	686	3.98	-3.49	-11.95	-11.84
687	2.923077	14.4223	21.9145	687	3.95	-3.52	-11.95	-11.84
688	3.006689	14.48986	21.89591	688	3.99	-3.48	-11.95	-11.82
689	3.190635	14.47297	21.85874	689	4.05	-3.5	-11.95	-11.82
690	3.274247	14.52365	21.87732	690	4	-3.52	-11.96	-11.84
691	3.374582	14.625	21.87732	691	3.98	-3.5	-11.95	-11.82
692	3.474916	14.65878	21.89591	692	4.02	-3.48	-11.96	-11.83
693	3.525084	14.59122	21.93309	693	4.01	-3.52	-11.97	-11.85
694	3.591973	14.59122	21.9145	694	3.93	-3.54	-11.96	-11.85
695	3.70903	14.65878	21.89591	695	4.08	-3.49	-11.96	-11.86
696	3.77592	14.72635	21.9145	696	3.98	-3.51	-11.96	-11.86
697	3.77592	14.76014	21.98885	697	3.94	-3.54	-11.96	-11.89
698	3.792642	14.79392	21.9145	698	3.98	-3.53	-11.96	-11.88
699	3.876254	14.84459	21.9145	699	3.92	-3.54	-11.96	-11.89
700	3.909699	14.89527	21.95167	700	3.96	-3.55	-11.97	-11.87
701	3.876254	14.72635	21.98885	701	4.01	-3.52	-11.96	-11.86
702	3.859532	14.50676	21.95167	702	4	-3.49	-11.95	-11.87
703	3.658863	14.21959	21.85874	703	4.05	-3.52	-11.94	-11.87
704	3.307692	13.89865	21.78439	704	4.03	-3.54	-11.94	-11.87
705	2.956522	13.84797	21.72862	705	4.03	-3.52	-11.94	-11.89
706	2.789298	14.03378	21.80297	706	3.99	-3.51	-11.95	-11.88
707	2.822742	14.2027	21.80297	707	4.1	-3.52	-11.95	-11.89
708	2.839465	14.33784	21.84015	708	4.06	-3.51	-11.95	-11.9
709	2.989967	14.38851	21.82156	709	4.02	-3.52	-11.96	-11.91
710	3.140468	14.47297	21.7658	710	4.07	-3.52	-11.96	-11.9
711	3.29097	14.48986	21.84015	711	4.05	-3.54	-11.96	-11.9
712	3.391304	14.57432	21.78439	712	4.03	-3.53	-11.96	-11.9
713	3.508361	14.60811	21.84015	713	4.09	-3.56	-11.96	-11.91
714	3.591973	14.67568	21.89591	714	4.05	-3.56	-11.96	-11.88
715	3.70903	14.65878	21.87732	715	4.06	-3.54	-11.96	-11.87
716	3.742475	14.70946	21.82156	716	4.1	-3.57	-11.96	-11.9
717	3.826087	14.76014	21.89591	717	3.97	-3.53	-11.96	-11.9

718	3.943144	14.77703	21.82156	718	3.98	-3.53	-11.97	-11.89
719	3.976589	14.79392	21.78439	719	4.07	-3.53	-11.97	-11.89
720	4.010033	14.84459	21.89591	720	4.1	-3.54	-11.98	-11.88
721	4.093645	14.91216	21.9145	721	4.18	-3.52	-11.97	-11.89
722	4.177258	14.91216	21.93309	722	4.11	-3.54	-11.97	-11.92
723	4.311037	14.89527	21.9145	723	4.13	-3.53	-11.97	-11.9
724	4.311037	14.86149	21.98885	724	4.09	-3.53	-11.97	-11.9
725	4.327759	14.84459	21.98885	725	4.08	-3.52	-11.98	-11.92
726	4.394649	14.92905	21.95167	726	4.13	-3.54	-11.97	-11.9
727	4.444816	14.92905	21.89591	727	3.95	-3.6	-11.97	-11.92
728	4.478261	14.97973	21.9145	728	4.02	-3.55	-11.97	-11.91
729	4.545151	14.99662	21.98885	729	4.05	-3.56	-11.97	-11.92
730	4.561873	15.03041	21.98885	730	4.04	-3.54	-11.97	-11.91
731	4.561873	14.94595	21.98885	731	3.91	-3.57	-11.96	-11.94
732	4.561873	14.94595	22.04461	732	4.06	-3.56	-11.97	-11.9
733	4.645485	14.94595	22.00743	733	3.98	-3.55	-11.96	-11.87
734	4.545151	15.01351	22.02602	734	4.05	-3.56	-11.96	-11.89
735	4.578595	14.97973	21.97026	735	4.02	-3.56	-11.97	-11.88
736	4.61204	14.91216	21.97026	736	3.97	-3.54	-11.96	-11.85
737	4.578595	14.77703	21.9145	737	4.04	-3.54	-11.96	-11.87
738	4.428094	14.28716	21.9145	738	3.89	-3.49	-11.96	-11.89
739	3.892977	13.23986	21.84015	739	3.86	-3.53	-11.96	-11.9
740	3.173913	12.5473	21.71004	740	3.88	-3.52	-11.97	-11.9
741	2.622074	12.49662	21.74721	741	3.81	-3.54	-11.97	-11.89
742	2.204013	12.66554	21.69145	742	3.92	-3.52	-11.97	-11.87
743	1.953177	12.88514	21.59851	743	3.86	-3.54	-11.97	-11.88
744	1.90301	13.22297	21.6171	744	3.88	-3.54	-11.98	-11.88
745	1.90301	13.51014	21.59851	745	3.86	-3.54	-11.99	-11.89
746	1.953177	13.71284	21.69145	746	3.98	-3.55	-12	-11.9
747	2.053512	13.88176	21.63569	747	3.97	-3.56	-12.01	-11.91
748	2.254181	14	21.69145	748	3.88	-3.57	-12.02	-11.91
749	2.337793	14.08446	21.71004	749	3.89	-3.56	-12.03	-11.9
750	2.421405	14.15203	21.7658	750	3.89	-3.59	-12.03	-11.92
751	2.588629	14.25338	21.72862	751	3.92	-3.57	-12.04	-11.94
752	2.772575	14.30405	21.80297	752	3.91	-3.55	-12.04	-11.92
753	2.856187	14.33784	21.80297	753	3.87	-3.58	-12.04	-11.91
754	2.906355	14.38851	21.82156	754	4.04	-3.56	-12.04	-11.91
755	2.989967	14.47297	21.74721	755	3.93	-3.59	-12.04	-11.91
756	3.040134	14.50676	21.72862	756	3.89	-3.61	-12.05	-11.92
757	3.157191	14.54054	21.7658	757	3.85	-3.59	-12.06	-11.95
758	3.257525	14.55743	21.7658	758	3.94	-3.58	-12.06	-11.93
759	3.307692	14.54054	21.72862	759	3.89	-3.6	-12.06	-11.91
760	3.35786	14.55743	21.80297	760	3.86	-3.59	-12.06	-11.94
761	3.408027	14.625	21.85874	761	3.91	-3.6	-12.05	-11.95
762	3.441472	14.625	21.84015	762	3.87	-3.59	-12.06	-11.95

763	3.474916	14.625	21.78439	763	3.83	-3.61	-12.07	-11.94
764	3.474916	14.67568	21.78439	764	3.9	-3.6	-12.07	-11.95
765	3.474916	14.65878	21.78439	765	3.91	-3.59	-12.07	-11.94
766	3.541806	14.67568	21.7658	766	3.89	-3.61	-12.06	-11.96
767	3.541806	14.65878	21.7658	767	3.9	-3.6	-12.06	-11.94
768	3.575251	14.74324	21.82156	768	3.87	-3.59	-12.06	-11.95
769	3.658863	14.77703	21.85874	769	3.94	-3.6	-12.06	-11.97
770	3.658863	14.81081	21.84015	770	3.93	-3.61	-12.07	-11.97
771	3.658863	14.79392	21.84015	771	3.91	-3.6	-12.07	-11.97
772	3.70903	14.79392	21.82156	772	3.94	-3.59	-12.06	-11.96
773	3.692308	14.8277	21.84015	773	3.95	-3.59	-12.05	-11.94
774	3.77592	14.81081	21.84015	774	3.94	-3.57	-12.04	-11.9
775	3.809365	14.8277	21.87732	775	3.93	-3.56	-12.05	-11.93
776	3.792642	14.77703	21.82156	776	3.97	-3.56	-12.05	-11.92
777	3.842809	14.81081	21.85874	777	3.86	-3.54	-12.05	-11.92
778	3.926421	14.81081	21.85874	778	3.87	-3.55	-12.04	-11.91
779	3.926421	14.89527	21.80297	779	3.92	-3.55	-12.04	-11.91
780	4.026756	14.92905	21.84015	780	3.88	-3.54	-12.04	-11.91
781	4.076923	14.91216	21.89591	781	3.87	-3.54	-12.03	-11.93
782	4.043478	14.86149	21.89591	782	3.9	-3.53	-12.03	-11.92
783	4.026756	14.87838	21.9145	783	3.91	-3.54	-12.03	-11.93
784	4.12709	14.89527	21.89591	784	3.95	-3.55	-12.03	-11.92
785	4.227425	14.87838	21.84015	785	3.92	-3.56	-12.02	-11.9
786	4.210702	14.94595	21.85874	786	3.9	-3.55	-12.01	-11.92
787	4.244147	14.92905	21.85874	787	3.99	-3.54	-12.01	-11.91
788	4.244147	14.94595	21.87732	788	3.97	-3.54	-12.01	-11.89
789	4.294314	14.96284	21.87732	789	3.95	-3.53	-12	-11.9
790	4.394649	15.01351	21.87732	790	3.99	-3.52	-12	-11.89
791	4.394649	14.99662	21.87732	791	3.93	-3.53	-12	-11.91
792	4.444816	15.01351	21.89591	792	3.91	-3.56	-12	-11.92
793	4.444816	14.96284	21.87732	793	3.9	-3.53	-12	-11.92
794	4.428094	14.99662	21.84015	794	3.9	-3.54	-12	-11.93
795	4.494983	15.01351	21.85874	795	3.99	-3.53	-12	-11.92
796	4.561873	15.0473	21.89591	796	3.95	-3.53	-11.99	-11.9
797	4.578595	15.01351	21.87732	797	3.9	-3.53	-11.98	-11.9
798	4.645485	15.01351	21.85874	798	4.03	-3.54	-11.97	-11.89
799	4.712375	15.03041	21.84015	799	4	-3.53	-11.98	-11.9
800	4.762542	15.06419	21.85874	800	3.95	-3.52	-11.97	-11.88
801	4.779264	15.08108	21.85874	801	3.97	-3.53	-11.96	-11.86
802	4.812709	15.06419	21.87732	802	3.92	-3.5	-11.96	-11.88
803	4.812709	15.09797	21.93309	803	3.96	-3.51	-11.97	-11.9
804	4.762542	15.08108	21.93309	804	3.95	-3.49	-11.98	-11.9
805	4.745819	15.0473	21.9145	805	3.93	-3.51	-11.97	-11.9
806	4.862876	15.0473	21.87732	806	3.9	-3.49	-11.97	-11.89
807	4.879599	15.09797	21.87732	807	3.93	-3.49	-11.95	-11.86

808	4.896321	15.11486	21.9145	808	3.94	-3.5	-11.96	-11.87
809	4.979933	15.06419	21.87732	809	3.97	-3.48	-11.95	-11.86
810	5.013378	15.0473	21.93309	810	3.96	-3.47	-11.95	-11.88
811	5.013378	15.08108	21.87732	811	3.91	-3.49	-11.94	-11.88
812	5.063545	15.16554	21.85874	812	3.95	-3.46	-11.94	-11.87
813	5.180602	15.14865	21.82156	813	3.91	-3.47	-11.95	-11.9
814	5.147157	15.09797	21.84015	814	3.97	-3.48	-11.94	-11.87
815	5.180602	15.08108	21.82156	815	3.94	-3.48	-11.94	-11.88
816	5.230769	15.13176	21.85874	816	4.07	-3.49	-11.93	-11.91
817	5.331104	15.13176	21.89591	817	4.03	-3.49	-11.93	-11.91
818	5.331104	15.13176	21.95167	818	4.05	-3.46	-11.92	-11.88
819	5.297659	15.11486	21.97026	819	4.12	-3.47	-11.92	-11.88
820	5.280936	15.16554	21.97026	820	4.1	-3.45	-11.91	-11.89
821	5.230769	15.06419	21.97026	821	4.12	-3.48	-11.91	-11.9
822	5.197324	14.94595	21.95167	822	4.11	-3.48	-11.91	-11.89
823	5.113712	14.92905	21.95167	823	4.11	-3.49	-11.92	-11.88
824	5.046823	14.89527	21.89591	824	4	-3.49	-11.92	-11.87
825	4.996656	14.79392	21.9145	825	3.88	-3.51	-11.92	-11.88
826	4.929766	14.79392	21.87732	826	3.91	-3.51	-11.92	-11.88
827	4.829431	14.77703	21.87732	827	3.97	-3.52	-11.92	-11.86
828	4.779264	14.74324	21.84015	828	3.98	-3.51	-11.92	-11.86
829	4.729097	14.69257	21.80297	829	3.99	-3.49	-11.92	-11.85
830	4.67893	14.72635	21.80297	830	3.98	-3.49	-11.92	-11.85
831	4.645485	14.70946	21.84015	831	3.97	-3.48	-11.92	-11.85
832	4.695652	14.65878	21.87732	832	3.93	-3.48	-11.92	-11.83
833	4.628763	14.69257	21.87732	833	4.01	-3.48	-11.92	-11.83
834	4.545151	14.45608	21.82156	834	3.98	-3.47	-11.91	-11.83
835	4.26087	14.08446	21.7658	835	3.86	-3.46	-11.91	-11.84
836	3.892977	13.69595	21.72862	836	3.92	-3.46	-11.9	-11.84
837	3.491639	13.35811	21.67286	837	3.99	-3.48	-11.9	-11.85
838	3.006689	13.10473	21.57993	838	3.91	-3.48	-11.9	-11.88
839	2.588629	13.10473	21.56134	839	3.85	-3.51	-11.91	-11.91
840	2.38796	13.29054	21.48699	840	3.93	-3.51	-11.92	-11.89
841	2.337793	13.5777	21.50558	841	3.94	-3.5	-11.93	-11.9
842	2.438127	13.74662	21.4684	842	3.93	-3.5	-11.94	-11.9
843	2.638796	13.83108	21.50558	843	3.99	-3.51	-11.95	-11.91
844	2.789298	13.96622	21.52416	844	4.05	-3.5	-11.97	-11.95
845	2.772575	14.10135	21.54275	845	4.03	-3.52	-11.97	-11.92
846	2.87291	14.11824	21.54275	846	4.03	-3.53	-11.97	-11.93
847	3.040134	14.21959	21.59851	847	3.99	-3.55	-11.97	-11.96
848	3.157191	14.30405	21.57993	848	4.12	-3.54	-11.97	-11.95
849	3.190635	14.35473	21.6171	849	4.06	-3.54	-11.97	-11.94
850	3.324415	14.40541	21.63569	850	4.14	-3.52	-11.98	-11.95
851	3.408027	14.4223	21.67286	851	4.07	-3.52	-11.99	-11.95
852	3.458194	14.47297	21.74721	852	4.13	-3.52	-11.98	-11.94

853	3.525084	14.45608	21.74721	853	4.1	-3.51	-11.98	-11.95
854	3.558528	14.47297	21.71004	854	4.06	-3.54	-11.99	-11.95
855	3.625418	14.52365	21.65428	855	4	-3.54	-11.99	-11.95
856	3.725753	14.57432	21.72862	856	3.98	-3.54	-12	-11.95
857	3.859532	14.59122	21.74721	857	4.09	-3.52	-11.99	-11.95
858	3.926421	14.59122	21.74721	858	3.92	-3.61	-11.98	-12
859	3.976589	14.65878	21.74721	859	3.96	-3.54	-11.98	-11.96
860	3.993311	14.55743	21.72862	860	4.04	-3.55	-11.99	-11.96
861	3.959866	14.57432	21.69145	861	3.95	-3.56	-11.99	-11.96
862	4.010033	14.67568	21.71004	862	4.1	-3.54	-11.99	-11.96
863	4.076923	14.69257	21.63569	863	4.1	-3.56	-11.99	-11.96
864	4.143813	14.74324	21.65428	864	3.99	-3.54	-11.99	-11.97
865	4.210702	14.76014	21.71004	865	3.99	-3.53	-11.99	-11.95
866	4.311037	14.77703	21.7658	866	4.03	-3.55	-12	-11.95
867	4.361204	14.8277	21.7658	867	4.06	-3.54	-11.99	-11.97
868	4.411371	14.72635	21.78439	868	3.96	-3.54	-11.99	-11.95
869	4.411371	14.50676	21.71004	869	3.91	-3.54	-11.98	-11.95
870	4.294314	14.43919	21.74721	870	3.97	-3.54	-11.97	-11.94
871	4.177258	14.37162	21.74721	871	4.11	-3.54	-11.97	-11.93
872	4.110368	14.37162	21.72862	872	4.1	-3.55	-11.98	-11.95
873	4.010033	14.48986	21.67286	873	4.11	-3.54	-11.97	-11.95
874	4.026756	14.55743	21.67286	874	4.05	-3.53	-11.97	-11.92
875	4.060201	14.60811	21.69145	875	4.05	-3.53	-11.98	-11.92
876	4.093645	14.57432	21.74721	876	4	-3.55	-11.98	-11.92
877	4.19398	14.64189	21.7658	877	3.89	-3.52	-11.98	-11.88
878	4.26087	14.76014	21.7658	878	3.91	-3.51	-11.99	-11.86
879	4.327759	14.8277	21.80297	879	3.99	-3.51	-11.99	-11.85
880	4.428094	14.8277	21.74721	880	3.95	-3.5	-11.99	-11.83
881	4.461538	14.89527	21.78439	881	3.97	-3.5	-11.99	-11.84
882	4.411371	14.87838	21.7658	882	3.99	-3.5	-11.99	-11.84
883	4.411371	14.69257	21.72862	883	3.91	-3.53	-11.98	-11.83
884	4.411371	14.59122	21.74721	884	3.98	-3.46	-11.98	-11.83
885	4.394649	14.65878	21.7658	885	3.98	-3.47	-11.98	-11.83
886	4.394649	14.72635	21.74721	886	3.87	-3.47	-11.98	-11.83
887	4.411371	14.81081	21.7658	887	3.86	-3.49	-11.98	-11.81
888	4.311037	14.86149	21.78439	888	3.99	-3.47	-11.98	-11.81
889	4.327759	14.87838	21.72862	889	3.9	-3.49	-11.97	-11.83
890	4.428094	14.89527	21.72862	890	3.97	-3.48	-11.97	-11.82
891	4.444816	14.94595	21.78439	891	4.01	-3.48	-11.97	-11.8
892	4.428094	14.99662	21.78439	892	3.96	-3.49	-11.97	-11.82
893	4.461538	14.99662	21.78439	893	3.96	-3.49	-11.97	-11.86
894	4.561873	15.03041	21.82156	894	3.93	-3.48	-11.96	-11.82
895	4.545151	15.03041	21.7658	895	3.88	-3.5	-11.96	-11.83
896	4.461538	15.06419	21.82156	896	3.93	-3.52	-11.96	-11.87
897	4.428094	15.0473	21.87732	897	3.93	-3.5	-11.97	-11.87

898	4.478261	15.11486	21.82156	898	3.96	-3.51	-11.97	-11.86
899	4.528428	15.06419	21.72862	899	3.95	-3.5	-11.97	-11.86
900	4.595318	15.06419	21.80297	900	3.94	-3.5	-11.96	-11.87
901	4.645485	15.08108	21.84015	901	3.94	-3.5	-11.96	-11.87
902	4.578595	15.11486	21.80297	902	4.01	-3.52	-11.96	-11.86
903	4.578595	15.13176	21.84015	903	4.02	-3.53	-11.96	-11.87
904	4.628763	15.14865	21.84015	904	3.93	-3.5	-11.95	-11.86
905	4.662207	15.16554	21.87732	905	3.99	-3.5	-11.96	-11.87
906	4.645485	15.14865	21.84015	906	4.04	-3.48	-11.95	-11.86
907	4.712375	15.16554	21.80297	907	4.01	-3.47	-11.95	-11.84
908	4.795987	15.19932	21.85874	908	4.01	-3.49	-11.95	-11.88
909	4.795987	15.08108	21.84015	909	3.89	-3.5	-11.95	-11.91
910	4.695652	14.70946	21.78439	910	3.9	-3.5	-11.94	-11.85
911	4.561873	14.4223	21.71004	911	3.99	-3.47	-11.94	-11.84
912	4.277592	14.35473	21.72862	912	4.02	-3.48	-11.93	-11.87
913	4.093645	14.45608	21.74721	913	4.02	-3.51	-11.93	-11.86
914	3.976589	14.52365	21.72862	914	4.02	-3.47	-11.93	-11.85
915	3.943144	14.57432	21.72862	915	3.98	-3.5	-11.93	-11.86
916	3.943144	14.67568	21.74721	916	4.04	-3.5	-11.94	-11.86
917	3.976589	14.76014	21.67286	917	4.01	-3.49	-11.94	-11.86
918	4.160535	14.86149	21.72862	918	4.03	-3.49	-11.93	-11.88
919	4.26087	14.89527	21.78439	919	3.99	-3.5	-11.94	-11.87
920	4.294314	14.91216	21.78439	920	4.05	-3.51	-11.94	-11.86
921	4.361204	14.94595	21.74721	921	3.94	-3.51	-11.94	-11.84
922	4.428094	14.97973	21.7658	922	3.96	-3.48	-11.94	-11.82
923	4.545151	14.99662	21.80297	923	3.95	-3.52	-11.95	-11.85
924	4.61204	14.97973	21.7658	924	3.98	-3.49	-11.96	-11.86
925	4.67893	15.0473	21.78439	925	4.04	-3.48	-11.96	-11.87
926	4.67893	15.01351	21.82156	926	3.98	-3.5	-11.95	-11.87
927	4.67893	14.99662	21.80297	927	4.03	-3.49	-11.95	-11.87
928	4.729097	15.01351	21.82156	928	4.08	-3.5	-11.94	-11.86
929	4.745819	15.01351	21.80297	929	3.98	-3.53	-11.94	-11.88
930	4.829431	15.0473	21.82156	930	4	-3.51	-11.95	-11.89
931	4.829431	15.08108	21.82156	931	3.99	-3.5	-11.95	-11.88
932	4.862876	15.0473	21.84015	932	4	-3.49	-11.94	-11.86
933	4.812709	14.91216	21.85874	933	3.96	-3.52	-11.94	-11.85
934	4.762542	14.74324	21.78439	934	3.93	-3.56	-11.95	-11.87
935	4.628763	14.76014	21.72862	935	3.9	-3.54	-11.94	-11.88
936	4.561873	14.86149	21.74721	936	3.86	-3.54	-11.94	-11.87
937	4.645485	14.89527	21.71004	937	3.88	-3.52	-11.94	-11.85
938	4.61204	14.72635	21.71004	938	3.92	-3.54	-11.93	-11.84
939	4.394649	14.54054	21.78439	939	3.87	-3.52	-11.93	-11.87
940	4.093645	14.40541	21.78439	940	3.84	-3.52	-11.92	-11.87
941	3.892977	14.32095	21.74721	941	3.87	-3.51	-11.92	-11.84
942	3.792642	14.30405	21.67286	942	3.94	-3.52	-11.91	-11.84

943	3.675585	14.23649	21.6171	943	3.91	-3.52	-11.91	-11.85
944	3.508361	14.23649	21.59851	944	3.92	-3.51	-11.9	-11.84
945	3.391304	14.25338	21.57993	945	3.98	-3.48	-11.89	-11.85
946	3.424749	14.21959	21.6171	946	3.96	-3.48	-11.89	-11.82
947	3.474916	14.13514	21.57993	947	4.01	-3.49	-11.89	-11.82
948	3.458194	14.18581	21.59851	948	3.94	-3.47	-11.9	-11.82
949	3.408027	14.2027	21.56134	949	4.03	-3.48	-11.9	-11.84
950	3.341137	14.21959	21.57993	950	3.97	-3.49	-11.91	-11.85
951	3.324415	14.2027	21.54275	951	4.09	-3.49	-11.91	-11.84
952	3.374582	14.28716	21.56134	952	4.03	-3.51	-11.92	-11.85
953	3.408027	14.35473	21.59851	953	4	-3.51	-11.93	-11.84
954	3.441472	14.45608	21.6171	954	3.99	-3.51	-11.93	-11.81
955	3.591973	14.48986	21.59851	955	3.88	-3.52	-11.93	-11.83
956	3.742475	14.57432	21.6171	956	3.88	-3.5	-11.94	-11.82
957	3.842809	14.67568	21.63569	957	3.92	-3.49	-11.93	-11.8
958	3.892977	14.69257	21.6171	958	3.81	-3.49	-11.94	-11.8
959	3.943144	14.77703	21.65428	959	3.98	-3.49	-11.93	-11.81
960	4.026756	14.77703	21.69145	960	3.98	-3.49	-11.93	-11.82
961	4.160535	14.79392	21.71004	961	3.91	-3.48	-11.93	-11.82
962	4.26087	14.86149	21.72862	962	3.97	-3.49	-11.92	-11.82
963	4.311037	14.86149	21.69145	963	3.97	-3.49	-11.92	-11.83
964	4.361204	14.91216	21.72862	964	3.95	-3.49	-11.92	-11.84
965	4.377926	15.03041	21.65428	965	3.99	-3.49	-11.92	-11.85
966	4.511706	14.99662	21.67286	966	3.96	-3.49	-11.92	-11.85
967	4.561873	14.94595	21.63569	967	3.96	-3.5	-11.92	-11.86
968	4.645485	14.99662	21.67286	968	4.02	-3.51	-11.91	-11.84
969	4.67893	15.01351	21.74721	969	4	-3.5	-11.92	-11.85
970	4.695652	15.0473	21.74721	970	3.96	-3.49	-11.91	-11.84
971	4.779264	15.0473	21.72862	971	3.96	-3.49	-11.91	-11.83
972	4.913043	15.08108	21.67286	972	3.86	-3.48	-11.92	-11.84
973	4.896321	15.06419	21.72862	973	4.01	-3.5	-11.91	-11.82
974	4.896321	15.0473	21.72862	974	3.98	-3.48	-11.91	-11.84
975	4.946488	15.06419	21.78439	975	3.98	-3.47	-11.9	-11.82
976	4.996656	15.09797	21.72862	976	3.92	-3.48	-11.9	-11.83
977	5.063545	15.11486	21.74721	977	3.95	-3.46	-11.89	-11.84
978	5.0301	15.11486	21.74721	978	3.92	-3.46	-11.9	-11.85

Deli_exp_14

Experiment type: Deliquescence experiment. The regolith type is JSC Mars-1 in this experiment, with a thickness of 2 cm. The initial weight was 331.31 g. 1.61 wt% of calcium perchlorate was added increasing the mass to 336.64 g. The humidity buffer was LiCl which has a RH of 11.31 at

0 degrees Celsius. Chiller was set to -20°C. Temperature around the sample was controlled by the chiller.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= humidity buffer 3= atmosphere 4= sample

Mass Min.	Mass	RH Min.	Ch02	Ch03	Ch04	T Min.	Ch01	Ch02	Ch03	Ch04
1	335.61	0	9.177258	13.61149	21.95167	0	8.84	-17.82	-24.67	-25.02
3	335.36	1	9.344482	12.125	22.13755	1	8.96	-17.98	-24.51	-24.68
5	335.3	2	9.561873	9.067568	22.30483	2	9.68	-17.84	-24.4	-24.55
7	335.34	3	9.511706	4.810811	22.39777	3	9.02	-17.65	-24.33	-24.51
9	335.38	4	9.19398	1.472973	22.45353	4	-6.47	-17.98	-24.27	-25.93
11	335.41	5	8.759197	5.915541	22.34201	5	-10.46	-19.33	-24.67	-26.65
13	335.46	6	8.190635	3.22973	22.23048	6	-15.62	-20.41	-24.71	-27.07
15	335.49	7	7.672241	2.091216	22.04461	7	-12.65	-19.32	-24.56	-27.26
17	335.54	8	7.404682	6.618243	21.85874	8	-8.02	-18.17	-24.39	-26.88
19	335.55	9	7.371237	9.641892	21.78439	9	-6.48	-17.06	-24.27	-26.34
21	335.14	10	7.371237	11.60135	21.69145	10	-2.83	-16.23	-24.17	-24.95
23	335.18	11	7.505017	12.85135	21.65428	11	-1.51	-16.08	-24.04	-23.87
25	335.22	12	7.555184	13.72973	21.56134	12	-0.79	-15.56	-23.89	-23.58
27	335.24	13	7.538462	14.35473	21.56134	13	-0.51	-15.05	-23.73	-23.54
29	335.28	14	7.622074	14.74324	21.6171	14	-0.62	-14.8	-23.56	-23.41
31	335.32	15	7.755853	15.08108	21.63569	15	-1.36	-14.76	-23.39	-23.57
33	335.32	16	7.80602	15.31757	21.63569	16	-1.23	-14.5	-23.23	-23.5
35	335.35	17	7.87291	15.4527	21.63569	17	-1.18	-14.15	-23.07	-23.39
37	335.37	18	7.956522	15.60473	21.6171	18	-1.01	-14.12	-22.9	-23.32
39	335.4	19	8.023411	15.68919	21.57993	19	-1.08	-13.99	-22.76	-23.24
41	335.41	20	8.107023	15.77365	21.56134	20	-0.93	-13.79	-22.62	-23.14
43	335.42	21	8.123746	15.75676	21.50558	21	-0.83	-13.64	-22.5	-23.06
45	335.44	22	8.190635	15.75676	21.50558	22	-0.89	-13.54	-22.38	-22.98
47	335.45	23	8.240803	15.75676	21.50558	23	-0.82	-13.37	-22.26	-22.92
49	335.5	24	8.257525	15.75676	21.50558	24	-0.71	-13.27	-22.16	-22.88
51	335.5	25	8.29097	15.80743	21.50558	25	-0.51	-13.18	-22.06	-22.84
53	335.5	26	8.29097	15.77365	21.50558	26	-0.58	-12.95	-21.96	-22.78
55	335.52	27	8.307692	15.75676	21.43123	27	-0.53	-12.82	-21.85	-22.7
57	335.53	28	8.324415	15.73986	21.4684	28	-0.48	-12.78	-21.75	-22.62
59	335.54	29	8.324415	15.77365	21.50558	29	-0.31	-12.73	-21.66	-22.55
61	335.55	30	8.408027	15.79054	21.48699	30	-0.54	-12.67	-21.58	-22.48
63	335.56	31	8.374582	15.6723	21.4684	31	-0.57	-12.44	-21.49	-22.48
65	335.57	32	8.374582	15.60473	21.43123	32	-0.33	-12.42	-21.4	-22.38

67	335.58	33	8.324415	15.60473	21.48699	33	-0.28	-12.31	-21.32	-22.36
69	335.6	34	8.341137	15.60473	21.4684	34	-0.32	-12.2	-21.25	-22.38
71	335.61	35	8.29097	15.53716	21.54275	35	-0.3	-12.19	-21.17	-22.22
73	335.62	36	8.35786	15.48649	21.57993	36	-0.28	-12.17	-21.11	-22.18
75	335.65	37	8.35786	15.46959	21.57993	37	-0.23	-12.11	-21.05	-22.22
77	335.64	38	8.408027	15.40203	21.4684	38	-0.12	-12.07	-20.98	-22.08
79	335.66	39	8.374582	15.38514	21.41264	39	-0.14	-12.05	-20.93	-22.06
81	335.67	40	8.29097	15.38514	21.4684	40	-0.08	-11.93	-20.88	-21.99
83	335.67	41	8.257525	15.31757	21.4684	41	-0.03	-11.88	-20.82	-21.95
85	335.69	42	8.22408	15.26689	21.48699	42	-0.04	-11.89	-20.76	-21.9
87	335.7	43	8.173913	15.23311	21.56134	43	-0.09	-11.82	-20.72	-21.89
89	335.71	44	8.157191	15.23311	21.50558	44	-0.17	-11.6	-20.67	-21.9
91	335.72	45	8.107023	15.21622	21.48699	45	-0.08	-11.59	-20.61	-21.84
93	335.73	46	8.090301	15.14865	21.48699	46	0.04	-11.65	-20.56	-21.8
95	335.74	47	8.056856	14.4223	21.41264	47	-0.12	-11.43	-20.51	-21.84
97	335.75	48	7.789298	13.54392	21.37546	48	-0.06	-11.35	-20.47	-21.85
99	335.76	49	7.471572	13.25676	21.18959	49	0.02	-11.49	-20.42	-21.75
101	335.77	50	7.287625	13.39189	21.20818	50	-0.05	-11.43	-20.38	-21.7
103	335.78	51	7.137124	13.59459	21.09665	51	-0.4	-11.37	-20.33	-21.45
105	335.79	52	7.137124	13.7973	21.11524	52	-0.33	-11.43	-20.26	-21.25
107	335.8	53	7.153846	14.03378	21.15242	53	-0.22	-11.4	-20.21	-21.5
109	335.83	54	7.187291	14.23649	21.13383	54	-0.16	-11.38	-20.19	-21.4
111	335.82	55	7.237458	14.40541	21.18959	55	-0.25	-11.35	-20.17	-21.39
113	335.83	56	7.32107	14.57432	21.171	56	-0.09	-11.26	-20.16	-21.39
115	335.85	57	7.38796	14.59122	21.18959	57	0.06	-11.21	-20.14	-21.47
117	335.84	58	7.421405	14.55743	21.171	58	-0.02	-11.23	-20.12	-21.38
119	335.85	59	7.371237	14.625	21.13383	59	0.06	-11.09	-20.1	-21.37
121	335.86	60	7.371237	14.64189	21.24535	60	0.11	-11.14	-20.07	-21.31
123	335.87	61	7.337793	14.64189	21.24535	61	0.03	-11.08	-20.06	-21.27
125	335.88	62	7.220736	14.64189	21.30112	62	0.09	-11.05	-20.03	-21.31
127	335.89	63	7.204013	14.64189	21.24535	63	0.12	-11.01	-19.99	-21.33
129	335.9	64	7.153846	14.65878	21.22677	64	0.16	-10.99	-19.96	-21.26
131	335.91	65	7.103679	14.60811	21.18959	65	0.05	-10.94	-19.93	-21.17
133	335.91	66	7.070234	14.55743	21.171	66	0.18	-10.95	-19.9	-21.12
135	335.92	67	7.003344	14.57432	21.20818	67	0.09	-10.94	-19.87	-21.08
137	335.95	68	6.919732	14.57432	21.20818	68	0.14	-10.81	-19.84	-21.05
139	335.94	69	6.83612	14.48986	21.18959	69	0.24	-10.78	-19.81	-21.01
141	335.95	70	6.802676	14.4223	21.24535	70	0.19	-10.84	-19.79	-20.98
143	335.95	71	6.769231	14.35473	21.26394	71	0.2	-10.75	-19.77	-20.98
145	335.96	72	6.551839	14.03378	21.20818	72	0.17	-10.7	-19.74	-20.92
147	335.97	73	6.317726	13.67905	21.11524	73	0.19	-10.72	-19.71	-20.94
149	335.97	74	6.117057	13.54392	21.09665	74	0.06	-10.69	-19.69	-20.87
151	335.98	75	5.983278	13.61149	21.04089	75	0.09	-10.59	-19.65	-20.87
153	335.99	76	5.849498	13.72973	21.04089	76	0.08	-10.57	-19.62	-21.07
155	336	77	5.749164	13.83108	21.00372	77	0.15	-10.58	-19.59	-21.14

157	336.01	78	5.749164	13.93243	20.92937	78	0.14	-10.53	-19.56	-21.12
159	336.01	79	5.732441	14	20.98513	79	0.44	-10.45	-19.56	-21.04
161	336.02	80	5.765886	13.94932	20.92937	80	0.06	-10.49	-19.54	-20.94
163	336.03	81	5.715719	13.98311	20.87361	81	0.17	-10.48	-19.52	-20.74
165	336.04	82	5.682274	13.98311	20.89219	82	0.24	-10.51	-19.51	-20.72
167	336.05	83	5.632107	13.93243	20.91078	83	0.32	-10.42	-19.48	-20.68
169	336.05	84	5.548495	13.94932	20.91078	84	0.27	-10.38	-19.46	-20.61
171	336.06	85	5.531773	14.05068	20.96654	85	0.19	-10.4	-19.44	-20.58
173	336.07	86	5.531773	14.01689	20.98513	86	0.14	-10.39	-19.42	-20.61
175	336.07	87	5.51505	14.01689	20.96654	87	0.25	-10.34	-19.39	-20.7
177	336.08	88	5.431438	14	20.94796	88	0.2	-10.3	-19.36	-20.59
179	336.11	89	5.381271	13.94932	20.96654	89	0.22	-10.3	-19.34	-20.6
181	336.1	90	5.314381	13.91554	20.91078	90	0.2	-10.28	-19.31	-20.53
183	336.1	91	5.230769	13.86486	20.91078	91	0.31	-10.27	-19.29	-20.57
185	336.11	92	5.147157	13.88176	20.92937	92	0.22	-10.29	-19.27	-20.54
187	336.11	93	5.063545	13.86486	20.87361	93	0.21	-10.23	-19.24	-20.51
189	336.12	94	5.046823	13.88176	20.83643	94	0.18	-10.22	-19.21	-20.61
191	336.13	95	5.0301	13.93243	20.78067	95	0.12	-10.16	-19.18	-20.63
193	336.14	96	4.979933	13.93243	20.81784	96	0.22	-10.16	-19.17	-20.53
195	336.15	97	4.896321	13.89865	20.79926	97	0.28	-10.14	-19.14	-20.46
197	336.15	98	4.879599	13.78041	20.79926	98	0.22	-10.14	-19.12	-20.42
199	336.16	99	4.879599	13.71284	20.81784	99	0.35	-10.08	-19.09	-20.34
201	336.16	100	4.779264	13.72973	20.83643	100	0.27	-10.01	-19.07	-20.4
203	336.17	101	4.67893	13.62838	20.74349	101	0.32	-10.07	-19.05	-20.36
205	336.18	102	4.561873	13.39189	20.66914	102	0.39	-10.1	-19.03	-20.17
207	336.19	103	4.377926	12.81757	20.63197	103	0.31	-10.03	-19.01	-20.3
209	336.19	104	4.26087	12.63176	20.48327	104	0.29	-10	-18.98	-20.44
211	336.2	105	4.19398	12.81757	20.39033	105	0.26	-9.9	-18.95	-20.47
213	336.21	106	4.093645	13.08784	20.42751	106	0.22	-9.91	-18.93	-20.47
215	336.21	107	4.060201	13.32432	20.42751	107	0.02	-9.63	-18.89	-20.44
217	336.22	108	4.060201	13.45946	20.48327	108	0.33	-9.76	-18.87	-20.44
219	336.22	109	4.060201	13.56081	20.48327	109	0.26	-9.9	-18.86	-20.36
221	336.23	110	4.110368	13.64527	20.48327	110	0.27	-9.88	-18.85	-20.29
223	336.24	111	4.043478	13.59459	20.46468	111	0.16	-9.79	-18.82	-20.36
225	336.24	112	4.010033	13.61149	20.48327	112	0.33	-9.79	-18.79	-20.29
227	336.25	113	3.976589	13.5777	20.53903	113	0.32	-9.81	-18.78	-20.22
229	336.26	114	3.876254	13.59459	20.52045	114	0.28	-9.83	-18.76	-20.19
231	336.27	115	3.876254	13.59459	20.52045	115	0.3	-9.8	-18.74	-20.19
233	336.27	116	3.892977	13.61149	20.55762	116	0.26	-9.77	-18.72	-20.19
235	336.27	117	3.876254	13.59459	20.52045	117	0.3	-9.74	-18.71	-20.18
237	336.28	118	3.792642	13.52703	20.52045	118	0.32	-9.75	-18.7	-20.18
239	336.28	119	3.70903	13.52703	20.52045	119	0.34	-9.67	-18.68	-20.17
241	336.29	120	3.675585	13.51014	20.48327	120	0.33	-9.64	-18.66	-20.25
243	336.31	121	3.608696	13.40878	20.48327	121	0.28	-9.61	-18.64	-20.25
245	336.34	122	3.508361	13.32432	20.46468	122	0.42	-9.66	-18.62	-20.2

247	336.35	123	3.491639	13.32432	20.4461	123	0.27	-9.65	-18.61	-20.15
249	336.35	124	3.424749	13.375	20.46468	124	0.28	-9.68	-18.58	-20.09
251	336.35	125	3.341137	13.35811	20.48327	125	0.35	-9.64	-18.56	-20.18
253	336.35	126	3.307692	13.375	20.46468	126	0.32	-9.6	-18.54	-20.17
255	336.35	127	3.257525	13.45946	20.4461	127	0.28	-9.6	-18.53	-20.07
257	336.35	128	3.240803	13.51014	20.46468	128	0.37	-9.55	-18.51	-20.26
259	336.36	129	3.257525	13.49324	20.46468	129	0.4	-9.59	-18.5	-20.11
261	336.36	130	3.22408	13.40878	20.48327	130	0.37	-9.5	-18.47	-20.03
263	336.37	131	3.140468	13.22297	20.42751	131	0.36	-9.57	-18.46	-20.07
265	336.38	132	3.056856	13.03716	20.2974	132	0.23	-9.54	-18.44	-20
267	336.38	133	2.889632	12.9527	20.2974	133	0.32	-9.53	-18.42	-20.05
269	336.39	134	2.772575	13.00338	20.26022	134	0.27	-9.48	-18.39	-19.94
271	336.39	135	2.688963	13.08784	20.24164	135	0.44	-9.56	-18.37	-19.99
273	336.4	136	2.622074	12.93581	20.26022	136	0.67	-9.41	-18.34	-19.97
275	336.4	137	2.220736	12.24324	20.22305	137	0.36	-9.46	-18.31	-19.86
277	336.41	138	1.652174	11.71959	20.09294	138	0.17	-9.39	-18.3	-19.83
279	336.42	139	1.518395	11.78716	20	139	0.12	-9.41	-18.28	-19.87
281	336.43	140	1.802676	12.00676	19.96283	140	0.19	-9.44	-18.26	-19.86
283	336.42	141	2.103679	12.19257	19.92565	141	-0.07	-9.18	-18.24	-19.59
285	336.43	142	2.287625	12.41216	19.94424	142	-1.17	-9.41	-18.18	-19.14
287	336.43	143	2.404682	12.66554	20	143	-0.03	-9.43	-18.2	-19.3
289	336.44	144	2.488294	12.78378	19.94424	144	0.17	-9.43	-18.19	-19.94
291	336.45	145	2.571906	12.78378	19.98141	145	0.23	-9.39	-18.19	-19.83
293	336.46	146	2.622074	12.91892	20.05576	146	0.29	-9.42	-18.18	-19.8
295	336.46	147	2.538462	13.05405	20.01859	147	0.21	-9.43	-18.18	-19.84
297	336.47	148	2.571906	13.02027	19.96283	148	0.18	-9.38	-18.17	-19.81
299	336.47	149	2.571906	12.96959	19.98141	149	0.25	-9.41	-18.15	-19.73
301	336.48	150	2.505017	13.00338	20.07435	150	0.31	-9.38	-18.14	-19.65
303	336.48	151	2.38796	13.02027	20.01859	151	0.45	-9.37	-18.12	-19.57
305	336.48	152	2.337793	13.00338	20.01859	152	0.48	-9.3	-18.11	-19.61
307	336.49	153	2.371237	13.03716	20.07435	153	0.41	-9.28	-18.1	-19.59
309	336.5	154	2.371237	13.05405	20.09294	154	0.39	-9.29	-18.09	-19.51
311	336.5	155	2.32107	13.07095	20.11152	155	0.41	-9.22	-18.07	-19.52
313	336.51	156	2.220736	13.10473	20.11152	156	0.44	-9.28	-18.06	-19.62
315	336.51	157	2.220736	13.08784	20.11152	157	0.39	-9.28	-18.04	-19.55
317	336.52	158	2.220736	13.08784	20.03717	158	0.29	-9.25	-18.02	-19.63
319	336.52	159	2.170569	13.02027	20	159	0.37	-9.25	-17.99	-19.55
321	336.53	160	2.053512	12.98649	20.01859	160	0.46	-9.27	-17.98	-19.52
323	336.53	161	2.070234	13.02027	20.07435	161	0.48	-9.21	-17.96	-19.51
325	336.54	162	2.086957	13.05405	20.01859	162	0.59	-9.26	-17.94	-19.48
327	336.55	163	2.020067	13.05405	19.96283	163	0.6	-9.26	-17.92	-19.46
329	336.55	164	1.9699	13.07095	19.96283	164	0.52	-9.26	-17.9	-19.4
331	336.55	165	1.919732	13.07095	20	165	0.54	-9.27	-17.88	-19.4
333	336.56	166	1.919732	13.05405	19.96283	166	0.6	-9.23	-17.86	-19.46
335	336.57	167	1.936455	13.07095	19.96283	167	0.53	-9.16	-17.84	-19.45

337	336.57	168	1.869565	13.10473	19.96283	168	0.49	-9.16	-17.82	-19.44
339	336.58	169	1.886288	12.88514	19.96283	169	0.53	-9.17	-17.81	-19.48
341	336.58	170	1.769231	12.59797	19.94424	170	0.5	-9.21	-17.8	-19.38
343	336.59	171	1.668896	12.61486	19.92565	171	0.38	-9.16	-17.78	-19.45
345	336.59	172	1.602007	12.80068	19.92565	172	0.32	-9.12	-17.77	-19.41
347	336.6	173	1.551839	12.9527	19.96283	173	0.22	-9.12	-17.76	-19.33
349	336.6	174	1.618729	12.93581	19.92565	174	0.32	-9.16	-17.74	-19.51
351	336.61	175	1.652174	12.93581	19.8513	175	0.45	-9.16	-17.73	-19.48
353	336.61	176	1.568562	12.96959	19.81413	176	0.37	-9.06	-17.72	-19.43
355	336.62	177	1.501672	12.93581	19.77695	177	0.32	-9.04	-17.7	-19.51
357	336.63	178	1.468227	12.91892	19.86989	178	0.48	-9.13	-17.69	-19.42
359	336.63	179	1.434783	12.88514	19.88848	179	0.27	-9.15	-17.69	-19.44
361	336.63	180	1.501672	12.86824	19.88848	180	0.19	-9.13	-17.68	-19.43
363	336.64	181	1.468227	12.90203	19.90706	181	0.28	-9.11	-17.67	-19.38
365	336.64	182	1.351171	12.91892	19.8513	182	0.46	-9.13	-17.66	-19.43
367	336.65	183	1.384615	12.9527	19.83271	183	0.48	-9.08	-17.65	-19.56
369	336.66	184	1.384615	12.93581	19.8513	184	0.55	-9.09	-17.63	-19.37
371	336.66	185	1.250836	12.29392	19.8513	185	0.28	-9.05	-17.62	-19.31
373	336.66	186	0.866221	11.34797	19.72119	186	0.36	-9.1	-17.61	-19.24
375	336.67	187	0.264214	11.0777	19.57249	187	0.3	-9.06	-17.61	-19.32
377	336.67	188	0.036789	11.34797	19.53532	188	0.41	-9.13	-17.6	-19.31
379	336.68	189	0.086957	11.77027	19.53532	189	0.12	-9.04	-17.59	-19.47
381	336.68	190	0.020067	12.09122	19.47955	190	0.07	-8.93	-17.56	-19.43
383	336.69	191	0.0301	12.29392	19.49814	191	0.41	-9.01	-17.56	-19.43
385	336.69	192	0.046823	12.36149	19.51673	192	0.58	-8.95	-17.56	-19.47
387	336.7	193	0.09699	12.22635	19.5539	193	0.42	-9.01	-17.55	-19.36
389	336.71	194	0.09699	12.14189	19.5539	194	0.62	-9	-17.55	-19.41
391	336.71	195	0.080268	12.22635	19.49814	195	0.57	-9.03	-17.54	-19.37
393	336.71	196	0.09699	12.36149	19.46097	196	0.41	-9.02	-17.54	-19.25
395	336.72	197	0.147157	12.51351	19.44238	197	0.15	-8.9	-17.53	-19.13
397	336.72	198	0.16388	12.58108	19.49814	198	0.29	-8.94	-17.53	-19.33
399	336.73	199	0.16388	12.66554	19.53532	199	0.34	-8.98	-17.52	-19.22
401	336.74	200	0.197324	12.59797	19.49814	200	0.31	-8.98	-17.51	-19.11
403	336.74	201	0.230769	12.51351	19.47955	201	0.4	-9.01	-17.51	-19.17
405	336.75	202	0.230769	12.5473	19.53532	202	0.37	-9.02	-17.5	-19.04
407	336.76	203	0.214047	12.63176	19.5539	203	0.33	-9.06	-17.49	-18.89
409	336.76	204	0.197324	12.58108	19.51673	204	0.08	-9.01	-17.49	-18.96
411	336.77	205	0.214047	12.59797	19.49814	205	0.27	-9.06	-17.47	-19.05
413	336.77	206	0.180602	12.63176	19.5539	206	0.35	-9.04	-17.46	-19.13
415	336.77	207	0.180602	12.58108	19.53532	207	0.43	-9.05	-17.46	-18.95
417	336.78	208	0.147157	12.46284	19.47955	208	0.4	-9.04	-17.45	-19.04
419	336.78	209	0.147157	12.31081	19.38662	209	0.45	-8.92	-17.44	-19.31
421	336.79	210	0.147157	12.3277	19.38662	210	0.53	-9.02	-17.43	-19
423	336.79	211	0.046823	12.42905	19.46097	211	0.5	-9.05	-17.42	-18.77
425	336.8	212	0.013378	12.56419	19.47955	212	0.22	-8.91	-17.41	-18.98

427	336.8	213	0.013378	11.95608	19.46097	213	0.48	-8.95	-17.41	-19.21
429	336.81	214	0.170569	11.14527	19.46097	214	0.67	-8.96	-17.39	-19.03
431	336.81	215	0.38796	11.2973	19.38662	215	0.63	-8.89	-17.39	-18.94
433	336.82	216	0.454849	11.61824	19.29368	216	0.61	-8.88	-17.36	-19.04
435	336.82	217	0.421405	11.90541	19.31227	217	1.71	-8.69	-17.35	-18.72
437	336.83	218	0.32107	12.10811	19.34944	218	2.27	-8.87	-17.32	-18.61
439	336.83	219	0.270903	12.29392	19.36803	219	0.59	-8.84	-17.32	-18.93
441	336.84	220	0.254181	12.47973	19.44238	220	0.54	-8.81	-17.33	-19.09
443	336.84	221	0.187291	12.49662	19.42379	221	0.65	-8.8	-17.32	-18.97
445	336.84	222	0.170569	12.59797	19.44238	222	0.61	-8.79	-17.32	-18.89
447	336.85	223	0.103679	12.66554	19.44238	223	0.48	-8.77	-17.31	-18.91
449	336.85	224	0.103679	12.66554	19.46097	224	0.56	-8.78	-17.31	-18.91
451	336.85	225	0.103679	12.69932	19.47955	225	0.56	-8.83	-17.3	-18.86
453	336.86	226	0.086957	12.68243	19.47955	226	0.5	-8.77	-17.29	-18.83
455	336.87	227	0.070234	12.73311	19.49814	227	0.44	-8.86	-17.28	-18.9
457	336.87	228	0.036789	12.75	19.4052	228	0.32	-8.79	-17.27	-18.88
459	336.87	229	0.070234	12.71622	19.44238	229	0.35	-8.84	-17.27	-18.81
461	336.88	230	0.070234	12.69932	19.46097	230	0.44	-8.89	-17.26	-18.77
463	336.88	231	0.103679	12.78378	19.46097	231	0.37	-8.9	-17.26	-18.71
465	336.89	232	0.103679	12.76689	19.44238	232	0.39	-8.93	-17.25	-18.73
467	336.89	233	0.137124	12.73311	19.47955	233	0.41	-8.92	-17.24	-18.79
469	336.9	234	0.103679	12.73311	19.47955	234	0.45	-8.85	-17.24	-18.79
471	336.91	235	0.036789	12.63176	19.46097	235	0.35	-8.88	-17.23	-18.89
473	336.91	236	0.053512	12.46284	19.44238	236	0.46	-8.87	-17.22	-18.93
475	336.91	237	0.170569	12.19257	19.42379	237	0.39	-8.89	-17.21	-18.82
477	336.92	238	0.204013	12.02365	19.42379	238	0.44	-8.9	-17.2	-18.78
479	336.92	239	0.204013	12.05743	19.4052	239	0.44	-8.84	-17.2	-19.05
481	336.93	240	0.270903	12.14189	19.33086	240	0.31	-8.81	-17.19	-19.08
483	336.93	241	0.371237	12.15878	19.25651	241	0.36	-8.76	-17.19	-19.03
485	336.94	242	0.488294	12.00676	19.25651	242	0.45	-8.82	-17.19	-19
487	336.95	243	0.571906	12.04054	19.25651	243	0.43	-8.84	-17.19	-18.86
489	336.95	244	0.638796	11.98986	19.27509	244	0.38	-8.69	-17.18	-18.92
491	336.95	245	0.722408	10.95946	19.23792	245	0.53	-8.78	-17.18	-18.93
493	336.96	246	0.939799	9.878378	19.18216	246	0.43	-8.8	-17.17	-19.03
495	336.96	247	1.29097	9.574324	19.07063	247	0.51	-8.8	-17.17	-18.79
497	336.97	248	1.591973	9.574324	18.92193	248	0.4	-8.77	-17.17	-18.76
499	336.97	249	1.77592	9.692568	18.829	249	1.27	-8.78	-17.18	-17.86
501	336.98	250	1.926421	9.996622	18.77323	250	1.06	-8.92	-17.22	-16.84
503	336.98	251	2.043478	10.31757	18.69888	251	0.35	-8.99	-17.26	-16.51
505	336.98	252	2.143813	10.55405	18.64312	252	-0.51	-9.02	-17.29	-16.4
507	336.99	253	2.26087	10.75676	18.60595	253	-0.83	-9.03	-17.34	-16.63
509	336.99	254	2.361204	11.01014	18.6803	254	-1.03	-9.07	-17.39	-16.18
511	337	255	2.411371	11.21284	18.66171	255	-0.61	-9.13	-17.44	-16.12
513	337.01	256	2.494983	11.34797	18.6803	256	-0.32	-9.19	-17.47	-16.05
515	337.01	257	2.561873	11.5	18.66171	257	0.31	-8.93	-17.47	-17.6

517	337.01	258	2.645485	11.58446	18.71747	258	0.56	-8.91	-17.45	-18.43
519	337.02	259	2.628763	11.7027	18.81041	259	0.48	-8.92	-17.44	-18.7
521	337.02	260	2.628763	11.87162	18.75465	260	0.5	-8.95	-17.42	-18.71
523	337.03	261	2.595318	12.00676	18.69888	261	0.63	-8.91	-17.4	-18.86
525	337.03	262	2.545151	12.04054	18.77323	262	0.36	-8.93	-17.38	-18.76
527	337.04	263	2.511706	12.14189	18.86617	263	0.35	-8.94	-17.36	-18.6
529	337.04	264	2.478261	12.22635	18.88476	264	0.47	-8.96	-17.34	-18.64
531	337.05	265	2.411371	12.26014	18.88476	265	0.4	-8.97	-17.32	-18.77
533	337.05	266	2.411371	12.29392	18.88476	266	0.35	-8.94	-17.31	-18.69
535	337.05	267	2.394649	12.29392	18.88476	267	0.41	-8.93	-17.3	-18.63
537	337.06	268	2.377926	12.29392	18.95911	268	0.27	-8.93	-17.28	-18.74
539	337.06	269	2.361204	12.27703	18.99628	269	0.44	-8.92	-17.27	-18.68
541	337.07	270	2.294314	12.19257	18.99628	270	0.33	-8.91	-17.26	-18.81
543	337.07	271	2.294314	12.26014	18.95911	271	0.35	-8.93	-17.25	-18.68
545	337.08	272	2.294314	12.27703	18.95911	272	0.28	-8.88	-17.24	-18.87
547	337.09	273	2.294314	12.29392	18.99628	273	0.28	-8.85	-17.23	-18.88
549	337.08	274	2.26087	12.34459	18.94052	274	0.23	-8.91	-17.22	-18.95
551	337.09	275	2.210702	12.44595	18.9777	275	0.32	-8.82	-17.21	-18.78
553	337.1	276	2.227425	12.47973	19.03346	276	0.29	-8.9	-17.2	-18.88
555	337.1	277	2.19398	12.42905	19.01487	277	0.44	-8.85	-17.18	-18.83
557	337.11	278	2.160535	12.41216	18.95911	278	0.4	-8.89	-17.17	-18.81
559	337.11	279	2.12709	12.37838	18.95911	279	0.34	-8.82	-17.16	-18.81
561	337.12	280	2.143813	12.36149	19.01487	280	0.39	-8.79	-17.16	-18.56
563	337.13	281	2.177258	12.17568	19.01487	281	0.4	-8.8	-17.14	-18.75
565	337.12	282	2.227425	12.05743	18.95911	282	0.16	-8.7	-17.14	-18.96
567	337.13	283	2.294314	12.00676	18.92193	283	0.37	-8.75	-17.12	-19.07
569	337.14	284	2.344482	11.88851	18.92193	284	0.42	-8.81	-17.12	-19.09
571	337.14	285	2.361204	11.9223	18.95911	285	0.5	-8.78	-17.1	-19.06
573	337.15	286	2.377926	12.00676	18.94052	286	0.65	-8.76	-17.1	-18.97
575	337.15	287	2.344482	12.09122	18.90335	287	0.59	-8.77	-17.09	-18.99
577	337.15	288	2.327759	12.19257	18.92193	288	0.45	-8.56	-17.09	-18.97
579	337.16	289	2.244147	12.3277	18.90335	289	0.71	-8.62	-17.06	-18.89
581	337.16	290	2.19398	12.42905	18.92193	290	0.82	-8.66	-17.05	-18.87
583	337.16	291	2.177258	12.47973	18.92193	291	0.79	-8.62	-17.05	-18.96
585	337.17	292	2.19398	12.36149	18.92193	292	0.72	-8.61	-17.05	-19.02
587	337.18	293	2.076923	12.29392	18.92193	293	0.61	-8.65	-17.05	-19.04
589	337.18	294	2.093645	12.44595	18.90335	294	0.48	-8.69	-17.05	-19.02
591	337.18	295	2.110368	12.3277	18.86617	295	0.51	-8.69	-17.05	-19.07
593	337.19	296	2.19398	12.00676	18.88476	296	0.31	-8.64	-17.05	-19.07
595	337.19	297	2.244147	11.98986	18.829	297	0.41	-8.71	-17.04	-19.1
597	337.2	298	2.294314	12.125	18.77323	298	0.45	-8.71	-17.04	-19.02
599	337.2	299	2.277592	12.3277	18.81041	299	0.38	-8.71	-17.03	-18.88
601	337.2	300	2.277592	12.47973	18.94052	300	0.21	-8.72	-17.03	-18.83
603	337.2	301	2.210702	12.53041	18.92193	301	0.45	-8.75	-17.04	-18.87
605	337.21	302	2.177258	12.5473	18.95911	302	0.42	-8.72	-17.04	-18.99

607	337.21	303	2.177258	12.5473	19.01487	303	0.44	-8.7	-17.04	-19.09
609	337.22	304	2.110368	12.5473	18.9777	304	0.42	-8.7	-17.04	-19.08
611	337.23	305	2.060201	12.58108	18.90335	305	0.39	-8.69	-17.04	-18.96
613	337.24	306	2.043478	12.63176	18.86617	306	0.36	-8.69	-17.04	-18.83
615	337.24	307	2.177258	12.64865	18.88476	307	0.45	-8.72	-17.03	-18.87
617	337.24	308	2.227425	12.63176	18.88476	308	0.39	-8.66	-17.04	-18.9
619	337.24	309	2.160535	12.61486	18.90335	309	0.42	-8.74	-17.03	-18.92
621	337.25	310	2.093645	12.24324	18.86617	310	0.32	-8.7	-17.03	-19.04
623	337.25	311	2.160535	11.71959	18.79182	311	0.4	-8.69	-17.04	-18.93
625	337.26	312	2.344482	11.7027	18.75465	312	0.33	-8.73	-17.04	-18.8
627	337.26	313	2.444816	11.95608	18.79182	313	0.47	-8.71	-17.03	-18.85
629	337.28	314	2.478261	12.00676	18.79182	314	0.21	-8.66	-17.02	-18.85
631	337.27	315	2.628763	11.85473	18.73606	315	0.3	-8.55	-17.03	-19
633	337.27	316	2.712375	11.82095	18.71747	316	0.36	-8.69	-17.02	-18.95
635	337.28	317	2.695652	11.87162	18.64312	317	0.31	-8.7	-17.03	-19.05
637	337.29	318	2.745819	11.98986	18.64312	318	0.44	-8.65	-17.03	-18.94
639	337.29	319	2.762542	12.05743	18.66171	319	0.39	-8.69	-17.01	-18.77
641	337.3	320	2.779264	12.125	18.69888	320	0.39	-8.69	-17.01	-18.69
643	337.3	321	2.779264	12.14189	18.73606	321	0.33	-8.69	-17.01	-18.65
645	337.3	322	2.745819	12.24324	18.829	322	0.32	-8.71	-17.01	-18.61
647	337.3	323	2.645485	12.29392	18.88476	323	0.33	-8.72	-17.01	-18.7
649	337.31	324	2.578595	12.27703	18.84758	324	0.35	-8.74	-17.01	-18.63
651	337.31	325	2.545151	12.31081	18.829	325	0.39	-8.73	-17	-18.6
653	337.33	326	2.578595	12.31081	18.81041	326	0.37	-8.74	-17	-18.69
655	337.32	327	2.561873	12.36149	18.81041	327	0.28	-8.74	-17	-18.65
657	337.33	328	2.578595	12.3277	18.79182	328	0.22	-8.72	-16.99	-18.73
659	337.33	329	2.545151	12.34459	18.84758	329	0.29	-8.7	-17	-18.72
661	337.34	330	2.528428	12.37838	18.90335	330	0.44	-8.75	-16.99	-18.68
663	337.34	331	2.595318	12.10811	18.79182	331	0.42	-8.75	-16.98	-18.64
665	337.34	332	2.695652	11.82095	18.79182	332	0.26	-8.67	-16.98	-18.73
667	337.36	333	2.762542	11.73649	18.71747	333	0.35	-8.75	-16.98	-18.71
669	337.35	334	2.896321	11.71959	18.69888	334	0.36	-8.73	-16.97	-18.65
671	337.36	335	2.929766	11.95608	18.6803	335	0.23	-8.7	-16.96	-18.71
673	337.36	336	2.913043	12.05743	18.64312	336	0.4	-8.6	-16.96	-18.95
675	337.37	337	2.846154	12.09122	18.6803	337	0.57	-8.7	-16.95	-18.69
677	337.37	338	2.762542	11.87162	18.69888	338	0.38	-8.72	-16.94	-18.47
679	337.37	339	2.913043	11.61824	18.60595	339	0.36	-8.69	-16.94	-18.52
681	337.38	340	3.113712	11.44932	18.51301	340	0.38	-8.75	-16.94	-18.75
683	337.39	341	3.230769	11.58446	18.62454	341	0.44	-8.64	-16.95	-18.96
685	337.39	342	3.247492	11.7027	18.56877	342	0.08	-8.64	-16.94	-19.08
687	337.39	343	3.280936	11.85473	18.56877	343	0.16	-8.64	-16.94	-19.06
689	337.4	344	3.280936	11.87162	18.56877	344	0.51	-8.66	-16.94	-18.68
691	337.4	345	3.247492	11.85473	18.60595	345	0.44	-8.68	-16.94	-18.57
693	337.4	346	3.280936	11.88851	18.56877	346	0.45	-8.7	-16.94	-18.77
695	337.41	347	3.314381	11.95608	18.62454	347	0.43	-8.68	-16.94	-19

697	337.41	348	3.297659	12.02365	18.64312	348	0.44	-8.56	-16.95	-18.85
699	337.42	349	3.280936	12.14189	18.5316	349	0.45	-8.58	-16.95	-18.8
701	337.43	350	3.247492	12.10811	18.49442	350	0.37	-8.64	-16.95	-18.68
703	337.43	351	3.297659	12.09122	18.51301	351	0.46	-8.65	-16.95	-18.52
705	337.43	352	3.264214	12.10811	18.58736	352	0.3	-8.68	-16.94	-18.58
707	337.44	353	3.314381	12.10811	18.58736	353	0.42	-8.72	-16.94	-18.52
709	337.44	354	3.397993	12.05743	18.64312	354	0.37	-8.67	-16.93	-18.46
711	337.44	355	3.347826	12.05743	18.62454	355	0.36	-8.68	-16.93	-18.64
713	337.45	356	3.314381	12.125	18.58736	356	0.44	-8.68	-16.94	-18.65
715	337.45	357	3.347826	12.10811	18.62454	357	0.3	-8.65	-16.94	-18.69
717	337.46	358	3.297659	12.14189	18.56877	358	0.38	-8.68	-16.92	-18.74
719	337.47	359	3.297659	12.26014	18.60595	359	0.42	-8.68	-16.92	-18.8
721	337.47	360	3.264214	12.3277	18.62454	360	0.42	-8.67	-16.93	-18.75
723	337.47	361	3.214047	12.36149	18.60595	361	0.41	-8.71	-16.93	-18.85
725	337.47	362	3.247492	12.42905	18.64312	362	0.32	-8.69	-16.93	-18.79
727	337.47	363	3.230769	12.42905	18.6803	363	0.47	-8.68	-16.93	-18.86
729	337.48	364	3.16388	12.31081	18.66171	364	0.45	-8.56	-16.92	-19.05
731	337.49	365	3.197324	12.14189	18.64312	365	0.42	-8.62	-16.91	-19.03
733	337.49	366	3.197324	12.15878	18.58736	366	0.56	-8.66	-16.91	-19.13
735	337.49	367	3.214047	12.26014	18.6803	367	0.48	-8.65	-16.91	-19.13
737	337.5	368	3.147157	12.34459	18.66171	368	0.45	-8.63	-16.92	-19.03
739	337.5	369	3.197324	12.47973	18.6803	369	0.4	-8.61	-16.92	-19.06
741	337.5	370	3.16388	12.51351	18.64312	370	0.52	-8.67	-16.92	-19.08
743	337.5	371	3.147157	12.49662	18.66171	371	0.44	-8.66	-16.92	-19.02
745	337.51	372	3.09699	12.51351	18.73606	372	0.46	-8.63	-16.92	-19.02
747	337.52	373	3.16388	12.5473	18.71747	373	0.48	-8.65	-16.91	-18.95
749	337.52	374	3.147157	12.37838	18.71747	374	0.46	-8.6	-16.91	-19.06
751	337.52	375	3.264214	12.24324	18.62454	375	0.57	-8.57	-16.91	-19.01
753	337.53	376	3.414716	12.125	18.55019	376	0.52	-8.52	-16.91	-18.98
755	337.54	377	3.498328	12.02365	18.51301	377	0.49	-8.6	-16.91	-18.99
757	337.53	378	3.548495	11.87162	18.47584	378	0.65	-8.57	-16.91	-18.89
759	337.54	379	3.682274	11.68581	18.5316	379	0.6	-8.52	-16.9	-18.88
761	337.56	380	3.866221	11.61824	18.5316	380	0.63	-8.52	-16.89	-18.87
763	337.56	381	3.916388	11.7027	18.45725	381	0.55	-8.56	-16.88	-18.71
765	337.56	382	3.882943	11.88851	18.47584	382	0.49	-8.6	-16.87	-18.88
767	337.56	383	3.799331	11.66892	18.42007	383	0.47	-8.58	-16.87	-18.74
769	337.56	384	3.949833	11.26351	18.40149	384	0.54	-8.61	-16.88	-18.61
771	337.57	385	4.083612	11.26351	18.36431	385	0.43	-8.61	-16.89	-18.75
773	337.57	386	4.117057	11.44932	18.36431	386	0.5	-8.61	-16.89	-18.82
775	337.58	387	4.167224	11.66892	18.32714	387	0.36	-8.64	-16.88	-18.71
777	337.58	388	4.117057	11.85473	18.32714	388	0.47	-8.66	-16.89	-18.28
779	337.58	389	3.966555	11.95608	18.36431	389	0.5	-8.69	-16.89	-18.48
781	337.58	390	3.916388	12.02365	18.40149	390	0.38	-8.61	-16.88	-18.43
783	337.59	391	3.849498	12.14189	18.40149	391	0.4	-8.67	-16.89	-18.47
785	337.6	392	3.816054	12.20946	18.47584	392	0.56	-8.65	-16.89	-18.45

787	337.6	393	3.749164	12.24324	18.5316	393	0.57	-8.63	-16.89	-18.73
789	337.61	394	3.665552	12.3277	18.56877	394	0.5	-8.63	-16.89	-18.95
791	337.61	395	3.598662	12.34459	18.49442	395	0.49	-8.61	-16.9	-18.99
793	337.61	396	3.565217	12.36149	18.47584	396	0.57	-8.61	-16.9	-19.11
795	337.62	397	3.598662	11.80405	18.45725	397	0.62	-8.59	-16.89	-19.05
797	337.62	398	3.816054	10.875	18.3829	398	0.56	-8.54	-16.9	-19.02
799	337.62	399	4.100334	10.4527	18.25279	399	0.59	-8.58	-16.9	-18.97
801	337.63	400	4.367893	10.53716	18.14126	400	0.54	-8.6	-16.9	-19.03
803	337.63	401	4.501672	10.77365	18.10409	401	0.51	-8.61	-16.9	-18.99
805	337.64	402	4.602007	11.06081	18.10409	402	0.75	-8.62	-16.89	-18.74
807	337.64	403	4.635452	11.2973	18.0855	403	0.54	-8.63	-16.88	-18.79
809	337.64	404	4.618729	11.5	18.06691	404	0.49	-8.56	-16.89	-18.83
811	337.64	405	4.585284	11.61824	18.14126	405	0.47	-8.62	-16.89	-18.63
813	337.64	406	4.535117	11.71959	18.10409	406	0.58	-8.58	-16.89	-18.52
815	337.65	407	4.468227	11.83784	18.0855	407	0.54	-8.62	-16.89	-18.54
817	337.66	408	4.41806	11.95608	18.14126	408	0.55	-8.68	-16.89	-18.3
819	337.66	409	4.367893	12.05743	18.19703	409	0.57	-8.66	-16.89	-18.42
821	337.66	410	4.334448	12.07432	18.27138	410	0.6	-8.67	-16.88	-18.49
823	337.68	411	4.234114	12.15878	18.28996	411	0.51	-8.59	-16.88	-18.51
825	337.67	412	4.133779	12.17568	18.27138	412	0.46	-8.62	-16.88	-18.48
827	337.68	413	4.150502	12.17568	18.21561	413	0.55	-8.62	-16.88	-18.55
829	337.68	414	4.100334	12.20946	18.30855	414	0.49	-8.61	-16.87	-18.6
831	337.68	415	4	12.26014	18.36431	415	0.45	-8.66	-16.87	-18.56
833	337.7	416	4	12.27703	18.3829	416	0.42	-8.66	-16.87	-18.53
835	337.7	417	4	12.26014	18.40149	417	0.48	-8.64	-16.86	-18.59
837	337.7	418	4	12.26014	18.43866	418	0.5	-8.62	-16.86	-18.5
839	337.71	419	3.983278	12.26014	18.36431	419	0.49	-8.62	-16.87	-18.61
841	337.71	420	3.966555	12.27703	18.3829	420	0.5	-8.64	-16.86	-18.67
843	337.71	421	3.983278	12.29392	18.3829	421	0.54	-8.64	-16.86	-18.66
845	337.72	422	3.966555	12.3277	18.45725	422	0.57	-8.61	-16.85	-18.66
847	337.72	423	3.983278	12.34459	18.43866	423	0.48	-8.66	-16.85	-18.69
849	337.73	424	3.983278	12.41216	18.42007	424	0.52	-8.63	-16.84	-18.83
851	337.73	425	3.949833	12.34459	18.47584	425	0.56	-8.61	-16.85	-18.81
853	337.74	426	3.966555	11.53378	18.43866	426	0.51	-8.61	-16.85	-18.8
855	337.74	427	4.167224	10.72297	18.28996	427	0.51	-8.51	-16.84	-18.71
857	337.74	428	4.41806	10.95946	18.21561	428	0.49	-8.62	-16.84	-18.63
859	337.75	429	4.568562	11.34797	18.15985	429	0.58	-8.63	-16.85	-18.65
861	337.75	430	4.501672	11.68581	18.0855	430	0.57	-8.58	-16.84	-18.61
863	337.75	431	4.535117	11.88851	18.21561	431	0.72	-8.66	-16.83	-18.47
865	337.76	432	4.535117	12.00676	18.28996	432	0.73	-8.63	-16.83	-18.46
867	337.76	433	4.434783	12.14189	18.30855	433	0.53	-8.6	-16.84	-18.51
869	337.76	434	4.351171	12.26014	18.32714	434	0.44	-8.61	-16.84	-18.51
871	337.77	435	4.301003	12.37838	18.32714	435	0.53	-8.63	-16.85	-18.56
873	337.77	436	4.317726	12.31081	18.28996	436	0.44	-8.56	-16.85	-18.43
875	337.78	437	4.284281	12.3277	18.34572	437	0.49	-8.59	-16.85	-18.64

877	337.78	438	4.217391	12.37838	18.42007	438	0.52	-8.59	-16.85	-18.75
879	337.78	439	4.133779	12.41216	18.43866	439	0.44	-8.63	-16.85	-18.73
881	337.79	440	4.016722	12.34459	18.40149	440	0.46	-8.58	-16.84	-18.74
883	337.79	441	4	12.34459	18.40149	441	0.53	-8.58	-16.84	-18.88
885	337.79	442	3.983278	12.37838	18.40149	442	0.48	-8.59	-16.84	-18.89
887	337.79	443	4	12.36149	18.43866	443	0.44	-8.56	-16.84	-18.92
889	337.8	444	4.083612	12.31081	18.43866	444	0.52	-8.55	-16.85	-19
891	337.8	445	4.033445	12.26014	18.49442	445	0.52	-8.58	-16.85	-19.01
893	337.8	446	4	12.27703	18.5316	446	0.5	-8.6	-16.85	-19.02
895	337.81	447	4.016722	12.31081	18.43866	447	0.54	-8.6	-16.84	-18.78
897	337.82	448	4.083612	12.37838	18.40149	448	0.62	-8.64	-16.85	-18.76
899	337.81	449	4.100334	12.34459	18.40149	449	0.54	-8.58	-16.85	-18.59
901	337.82	450	4.016722	12.31081	18.42007	450	0.57	-8.62	-16.86	-18.79
		451	4	12.29392	18.43866	451	0.68	-8.61	-16.85	-18.51
		452	4	12.36149	18.47584	452	0.57	-8.61	-16.85	-18.29
		453	4.016722	12.34459	18.43866	453	0.68	-8.61	-16.85	-18.42
		454	3.983278	12.22635	18.36431	454	0.52	-8.61	-16.85	-18.54
		455	3.949833	12.17568	18.34572	455	0.44	-8.66	-16.85	-18.75
		456	3.949833	12.26014	18.36431	456	0.47	-8.63	-16.85	-18.56
		457	4.050167	12.29392	18.40149	457	0.55	-8.63	-16.84	-18.49
		458	3.983278	12.27703	18.3829	458	0.61	-8.61	-16.84	-18.71
		459	3.966555	12.14189	18.42007	459	0.5	-8.6	-16.85	-18.68
		460	4.100334	12.125	18.36431	460	0.53	-8.62	-16.85	-18.56
		461	4.167224	12.125	18.34572	461	0.49	-8.59	-16.84	-18.69
		462	4.217391	12.14189	18.30855	462	0.5	-8.59	-16.83	-18.74
		463	4.217391	12.31081	18.32714	463	0.54	-8.65	-16.83	-18.73
		464	4.150502	12.37838	18.30855	464	0.48	-8.59	-16.82	-18.83
		465	4.100334	12.36149	18.32714	465	0.54	-8.51	-16.82	-18.84
		466	4.083612	12.37838	18.32714	466	0.51	-8.55	-16.82	-18.89
		467	4.167224	12.31081	18.3829	467	0.63	-8.61	-16.82	-18.92
		468	4.033445	12.24324	18.3829	468	0.61	-8.59	-16.82	-18.91
		469	4.050167	11.77027	18.32714	469	0.5	-8.59	-16.81	-18.86
		470	4.133779	11.2973	18.2342	470	0.46	-8.57	-16.82	-18.77
		471	4.367893	11.36486	18.10409	471	0.52	-8.64	-16.81	-18.54
		472	4.551839	11.55068	18.04833	472	0.48	-8.63	-16.81	-18.72
		473	4.668896	11.7027	18.06691	473	0.41	-8.56	-16.8	-18.69
		474	4.752508	11.85473	18.02974	474	0.26	-8.67	-16.81	-18.7
		475	4.735786	11.98986	18.0855	475	0.44	-8.64	-16.81	-18.54
		476	4.735786	12.125	18.14126	476	0.5	-8.64	-16.81	-18.56
		477	4.652174	12.15878	18.15985	477	0.59	-8.63	-16.81	-18.58
		478	4.551839	12.15878	18.21561	478	0.52	-8.57	-16.81	-18.71
		479	4.48495	12.19257	18.17844	479	0.63	-8.64	-16.81	-18.55
		480	4.434783	12.22635	18.21561	480	0.54	-8.65	-16.81	-18.64
		481	4.384615	12.20946	18.17844	481	0.54	-8.62	-16.81	-18.79
		482	4.41806	12.22635	18.17844	482	0.56	-8.62	-16.82	-18.86

483	4.41806	12.22635	18.21561	483	0.52	-8.63	-16.82	-18.84
484	4.401338	12.09122	18.17844	484	0.54	-8.66	-16.82	-18.94
485	4.351171	12.09122	18.17844	485	0.47	-8.63	-16.82	-18.74
486	4.384615	11.90541	18.25279	486	0.56	-8.57	-16.82	-18.79
487	4.48495	11.83784	18.15985	487	0.45	-8.58	-16.82	-18.84
488	4.568562	11.9223	18.04833	488	0.45	-8.61	-16.8	-18.93
489	4.602007	12.04054	18.02974	489	0.52	-8.65	-16.81	-19.02
490	4.635452	12.09122	18.01115	490	0.53	-8.58	-16.81	-18.87
491	4.719064	12.07432	18.02974	491	0.63	-8.59	-16.8	-18.65
492	4.752508	12.15878	17.99257	492	0.72	-8.5	-16.8	-18.61
493	4.685619	12.20946	18.02974	493	0.7	-8.57	-16.8	-18.62
494	4.618729	12.22635	18.06691	494	0.66	-8.57	-16.81	-18.87
495	4.618729	12.19257	18.12268	495	0.58	-8.53	-16.82	-18.98
496	4.585284	12.24324	18.14126	496	0.6	-8.55	-16.82	-18.91
497	4.551839	12.20946	18.15985	497	0.51	-8.58	-16.82	-18.94
498	4.568562	12.24324	18.12268	498	0.57	-8.58	-16.82	-19.06
499	4.602007	12.24324	18.14126	499	0.55	-8.59	-16.83	-19.03
500	4.551839	12.20946	18.15985	500	0.63	-8.52	-16.82	-19
501	4.468227	12.3277	18.19703	501	0.53	-8.58	-16.81	-18.94
502	4.451505	12.37838	18.21561	502	0.54	-8.58	-16.82	-18.89
503	4.48495	12.41216	18.17844	503	0.45	-8.53	-16.84	-18.87
504	4.48495	12.39527	18.10409	504	0.56	-8.63	-16.84	-18.91
505	4.501672	12.41216	18.0855	505	0.62	-8.6	-16.83	-18.87
506	4.468227	12.41216	18.15985	506	0.59	-8.65	-16.84	-18.86
507	4.384615	12.42905	18.17844	507	0.51	-8.63	-16.84	-18.9
508	4.334448	12.41216	18.21561	508	0.51	-8.59	-16.84	-18.76
509	4.284281	12.36149	18.19703	509	0.49	-8.58	-16.84	-18.75
510	4.317726	12.41216	18.2342	510	0.49	-8.54	-16.83	-18.87
511	4.301003	12.47973	18.19703	511	0.52	-8.56	-16.83	-18.96
512	4.301003	12.29392	18.14126	512	0.53	-8.58	-16.83	-18.9
513	4.334448	11.19595	18.10409	513	0.52	-8.6	-16.82	-18.9
514	4.401338	10.31757	18.06691	514	0.54	-8.59	-16.82	-18.98
515	4.535117	10.6723	18.01115	515	0.57	-8.57	-16.82	-18.9
516	4.635452	11.19595	18.01115	516	0.62	-8.54	-16.82	-18.94
517	4.702341	11.51689	17.95539	517	0.35	-8.6	-16.82	-18.95
518	4.802676	11.63514	17.91822	518	0.52	-8.62	-16.82	-18.61
519	4.802676	11.75338	17.95539	519	0.51	-8.65	-16.81	-18.75
520	4.83612	11.88851	17.9368	520	0.55	-8.67	-16.81	-18.86
521	4.819398	12.02365	17.95539	521	0.51	-8.59	-16.83	-18.93
522	4.719064	12.10811	17.97398	522	0.49	-8.61	-16.83	-18.99
523	4.735786	12.09122	17.95539	523	0.51	-8.6	-16.84	-18.93
524	4.752508	12.05743	17.9368	524	0.5	-8.63	-16.84	-18.94
525	4.702341	12.09122	18.01115	525	0.44	-8.61	-16.85	-18.97
526	4.685619	11.87162	18.02974	526	0.43	-8.65	-16.85	-18.87
527	4.83612	11.53378	17.97398	527	0.52	-8.65	-16.86	-18.84

528	4.936455	11.31419	17.91822	528	0.57	-8.58	-16.85	-18.81
529	5.053512	11.44932	17.91822	529	0.47	-8.58	-16.85	-18.84
530	5.103679	11.68581	17.89963	530	0.29	-8.65	-16.86	-18.86
531	5.086957	11.90541	17.88104	531	0.58	-8.67	-16.85	-18.79
532	5.003344	12.05743	17.9368	532	0.7	-8.65	-16.85	-18.51
533	5.036789	12.14189	17.95539	533	0.65	-8.66	-16.85	-18.46
534	4.986622	12.19257	17.86245	534	0.57	-8.65	-16.85	-18.43
535	4.9699	12.29392	17.95539	535	0.58	-8.59	-16.85	-18.58
536	4.852843	12.29392	18.06691	536	0.52	-8.62	-16.85	-18.81
537	4.83612	12.29392	18.01115	537	0.59	-8.63	-16.85	-18.93
538	4.802676	12.31081	17.97398	538	0.64	-8.62	-16.85	-18.95
539	4.769231	12.34459	17.99257	539	0.58	-8.64	-16.85	-19
540	4.785953	12.31081	18.06691	540	0.61	-8.63	-16.85	-18.82
541	4.785953	12.07432	18.06691	541	0.53	-8.62	-16.86	-18.85
542	4.886288	11.80405	17.99257	542	0.54	-8.52	-16.86	-18.91
543	5.003344	12.00676	18.01115	543	0.54	-8.58	-16.86	-19.09
544	5.003344	12.14189	17.95539	544	0.55	-8.61	-16.86	-18.99
545	5.036789	12.15878	18.01115	545	0.64	-8.57	-16.87	-18.93
546	5.020067	12.15878	17.97398	546	0.68	-8.58	-16.87	-19
547	4.9699	12.15878	17.9368	547	0.47	-8.6	-16.87	-19.12
548	4.936455	12.20946	17.91822	548	0.56	-8.68	-16.88	-19.06
549	4.83612	12.26014	17.99257	549	0.48	-8.65	-16.89	-18.9
550	4.769231	12.34459	18.04833	550	0.53	-8.64	-16.88	-18.81
551	4.752508	12.37838	18.04833	551	0.57	-8.59	-16.89	-18.81
552	4.735786	12.36149	18.01115	552	0.6	-8.63	-16.89	-18.95
553	4.802676	12.37838	18.06691	553	0.58	-8.61	-16.89	-18.98
554	4.802676	12.09122	18.10409	554	0.46	-8.59	-16.89	-19.04
555	4.936455	11.46622	17.97398	555	0.53	-8.65	-16.89	-19.01
556	5.153846	11.24662	17.69517	556	0.53	-8.6	-16.89	-19.01
557	5.32107	11.39865	17.62082	557	0.56	-8.55	-16.89	-19.09
558	5.38796	11.55068	17.62082	558	0.46	-8.62	-16.87	-19.01
559	5.32107	11.78716	17.58364	559	0.45	-8.58	-16.88	-19.04
560	5.38796	12.00676	17.71375	560	0.56	-8.64	-16.89	-18.64
561	5.304348	12.15878	17.73234	561	0.51	-8.65	-16.89	-18.93
562	5.287625	12.26014	17.75093	562	0.58	-8.55	-16.9	-18.91
563	5.237458	12.36149	17.80669	563	0.57	-8.67	-16.91	-19.02
564	5.237458	12.36149	17.88104	564	0.52	-8.64	-16.91	-19.1
565	5.153846	12.19257	17.9368	565	0.43	-8.64	-16.9	-18.95
566	5.187291	12.04054	17.91822	566	0.48	-8.68	-16.91	-18.92
567	5.220736	12.10811	17.88104	567	0.58	-8.67	-16.91	-18.96
568	5.237458	12.09122	17.7881	568	0.51	-8.63	-16.91	-18.88
569	5.220736	12.19257	17.80669	569	0.56	-8.63	-16.92	-18.73
570	5.270903	11.98986	17.9368	570	0.64	-8.62	-16.92	-18.81
571	5.337793	11.71959	17.89963	571	0.6	-8.58	-16.93	-18.95
572	5.32107	11.87162	17.80669	572	0.56	-8.6	-16.92	-18.94

573	5.371237	12.05743	17.88104	573	0.57	-8.62	-16.92	-18.93
574	5.404682	12.19257	17.89963	574	0.39	-8.55	-16.93	-18.85
575	5.32107	12.22635	17.91822	575	0.46	-8.63	-16.93	-18.93
576	5.220736	12.22635	17.91822	576	0.57	-8.65	-16.93	-19.04
577	5.204013	12.17568	17.89963	577	0.5	-8.63	-16.93	-19.07
578	5.237458	12.27703	17.91822	578	0.52	-8.61	-16.93	-18.97
579	5.220736	12.29392	17.88104	579	0.51	-8.62	-16.93	-19.04
580	5.304348	11.90541	17.89963	580	0.52	-8.62	-16.93	-18.93
581	5.421405	11.61824	17.84387	581	0.61	-8.65	-16.94	-19
582	5.521739	11.80405	17.86245	582	0.51	-8.57	-16.93	-19.03
583	5.471572	11.97297	17.88104	583	0.6	-8.49	-16.93	-19.09
584	5.454849	12.15878	17.84387	584	0.48	-8.5	-16.91	-18.99
585	5.354515	12.22635	17.88104	585	0.54	-8.56	-16.91	-18.97
586	5.337793	12.29392	17.91822	586	0.59	-8.58	-16.91	-18.99
587	5.32107	12.31081	17.9368	587	0.56	-8.63	-16.91	-19.01
588	5.32107	12.05743	17.95539	588	0.58	-8.66	-16.92	-19.13
589	5.421405	11.90541	17.9368	589	0.47	-8.64	-16.91	-19.08
590	5.438127	12.00676	17.86245	590	0.52	-8.57	-16.91	-18.97
591	5.471572	12.09122	17.82528	591	0.52	-8.6	-16.91	-18.97
592	5.488294	12.20946	17.84387	592	0.55	-8.65	-16.91	-18.77
593	5.404682	12.34459	17.89963	593	0.5	-8.66	-16.91	-18.64
594	5.337793	12.34459	17.95539	594	0.53	-8.64	-16.91	-18.72
595	5.354515	12.41216	17.95539	595	0.6	-8.66	-16.91	-18.86
596	5.254181	12.44595	17.9368	596	0.51	-8.62	-16.9	-18.86
597	5.254181	12.44595	17.88104	597	0.55	-8.64	-16.9	-18.94
598	5.237458	12.36149	17.86245	598	0.41	-8.62	-16.9	-18.96
599	5.220736	12.3277	17.89963	599	0.54	-8.55	-16.91	-18.91
600	5.153846	12.17568	17.86245	600	0.58	-8.63	-16.9	-18.8
601	5.204013	12.19257	17.95539	601	0.54	-8.67	-16.91	-18.83
602	5.254181	12.17568	17.99257	602	0.5	-8.66	-16.91	-18.91
603	5.237458	12.10811	17.99257	603	0.51	-8.68	-16.9	-18.93
604	5.187291	12.14189	17.9368	604	0.27	-8.68	-16.91	-19.25
605	5.204013	12.20946	17.91822	605	0.47	-8.7	-16.92	-19.05
606	5.187291	12.31081	17.91822	606	0.43	-8.63	-16.91	-18.92
607	5.187291	12.19257	17.89963	607	0.54	-8.66	-16.92	-18.86
608	5.254181	11.90541	17.82528	608	0.54	-8.65	-16.92	-19.03
609	5.421405	11.85473	17.80669	609	0.51	-8.59	-16.93	-19.12
610	5.488294	11.95608	17.7881	610	0.6	-8.63	-16.93	-19.15
611	5.538462	11.5	17.7881	611	0.58	-8.62	-16.93	-19.1
612	5.73913	10.52027	17.63941	612	0.47	-8.59	-16.93	-19.12
613	5.956522	10.21622	17.47212	613	0.56	-8.64	-16.95	-19.06
614	6.056856	10.53716	17.39777	614	0.6	-8.66	-16.94	-18.98
615	6.240803	10.89189	17.43494	615	0.55	-8.65	-16.95	-18.94
616	6.35786	11.14527	17.34201	616	0.02	-8.62	-16.95	-18.14
617	6.341137	11.34797	17.45353	617	-0.07	-8.7	-16.98	-17.76

618	6.408027	11.58446	17.56506	618	-0.01	-8.68	-17	-17.5
619	6.391304	11.80405	17.67658	619	-0.08	-8.71	-17.02	-17.35
620	6.424749	11.95608	17.69517	620	0.03	-8.73	-17.04	-17.34
621	6.441472	12.02365	17.69517	621	0.01	-8.71	-17.04	-17.42
622	6.391304	12.02365	17.71375	622	0.26	-8.64	-17.05	-17.79
623	6.458194	12.05743	17.69517	623	0.54	-8.68	-17.04	-18.63
624	6.525084	12.10811	17.75093	624	0.52	-8.7	-17.04	-19.17
625	6.525084	12.17568	17.80669	625	0.5	-8.65	-17.05	-19.15
626	6.474916	12.26014	17.84387	626	0.61	-8.73	-17.05	-19.13
627	6.408027	12.26014	17.84387	627	0.54	-8.66	-17.05	-19.12
628	6.408027	12.31081	17.76952	628	0.57	-8.7	-17.04	-19.05
629	6.391304	12.24324	17.88104	629	0.62	-8.65	-17.04	-19.05
630	6.341137	12.29392	17.86245	630	0.5	-8.67	-17.03	-18.99
631	6.341137	12.29392	17.7881	631	0.51	-8.7	-17.02	-19.05
632	6.35786	12.31081	17.82528	632	0.61	-8.65	-17.02	-19.09
633	6.408027	12.36149	17.86245	633	0.62	-8.6	-17.02	-19.01
634	6.424749	12.42905	17.7881	634	0.56	-8.63	-17.02	-18.96
635	6.35786	12.42905	17.84387	635	0.6	-8.63	-17.02	-18.96
636	6.307692	12.36149	17.76952	636	0.52	-8.63	-17.02	-19.02
637	6.341137	11.87162	17.67658	637	0.48	-8.66	-17.01	-18.98
638	6.458194	11.48311	17.50929	638	0.53	-8.66	-17.01	-19.06
639	6.591973	11.56757	17.39777	639	0.62	-8.63	-17.01	-18.95
640	6.608696	11.66892	17.34201	640	0.6	-8.66	-17.01	-19
641	6.608696	11.73649	17.45353	641	0.44	-8.69	-17.02	-19.05
642	6.608696	11.80405	17.54647	642	0.62	-8.69	-17	-19.03
643	6.591973	11.83784	17.56506	643	0.62	-8.63	-17	-19.14
644	6.658863	11.93919	17.54647	644	0.57	-8.61	-17	-19.1
645	6.658863	11.97297	17.54647	645	0.62	-8.61	-16.99	-18.97
646	6.64214	11.95608	17.62082	646	0.55	-8.64	-17	-19.06
647	6.625418	11.83784	17.60223	647	0.5	-8.65	-17	-19.09
648	6.64214	11.78716	17.60223	648	0.49	-8.67	-16.99	-19.04
649	6.658863	11.87162	17.56506	649	0.49	-8.67	-17	-19.08
650	6.608696	11.95608	17.62082	650	0.53	-8.73	-17.01	-18.88
651	6.658863	12.02365	17.62082	651	0.48	-8.64	-17	-18.81
652	6.591973	12.05743	17.62082	652	0.56	-8.69	-16.99	-18.83
653	6.508361	12.19257	17.58364	653	0.52	-8.67	-16.99	-18.99
654	6.391304	12.26014	17.56506	654	0.46	-8.73	-17	-18.9
655	6.307692	12.26014	17.63941	655	0.48	-8.69	-16.99	-18.81
656	6.307692	12.27703	17.67658	656	0.53	-8.68	-17	-18.76
657	6.307692	12.19257	17.69517	657	0.5	-8.69	-16.99	-18.98
658	6.22408	12.19257	17.67658	658	0.59	-8.66	-16.99	-18.97
659	6.173913	12.26014	17.69517	659	0.53	-8.7	-17	-18.97
660	6.107023	12.3277	17.7881	660	0.61	-8.73	-16.99	-19.06
661	6.123746	12.37838	17.82528	661	0.57	-8.69	-16.99	-18.93
662	6.123746	12.29392	17.82528	662	0.46	-8.7	-16.99	-18.79

663	6.123746	12.24324	17.75093	663	0.58	-8.68	-16.98	-18.88
664	6.157191	12.22635	17.71375	664	0.53	-8.7	-16.98	-18.91
665	6.107023	12.17568	17.63941	665	0.54	-8.67	-16.98	-19.06
666	6.090301	12.14189	17.67658	666	0.37	-8.67	-16.99	-19.14
667	6.123746	11.9223	17.71375	667	0.39	-8.7	-16.99	-18.97
668	6.240803	11.58446	17.62082	668	0.43	-8.71	-16.99	-18.87
669	6.274247	11.51689	17.47212	669	0.46	-8.73	-16.98	-18.81
670	6.35786	11.68581	17.54647	670	0.47	-8.74	-17	-18.88
671	6.491639	11.90541	17.58364	671	0.47	-8.68	-17	-18.93
672	6.474916	11.98986	17.54647	672	0.61	-8.65	-16.99	-18.95
673	6.458194	12.02365	17.49071	673	0.58	-8.72	-16.99	-18.88
674	6.491639	12.10811	17.52788	674	0.46	-8.69	-17	-18.86
675	6.474916	12.05743	17.56506	675	0.6	-8.69	-16.99	-19.01
676	6.424749	12.07432	17.58364	676	0.51	-8.68	-17	-18.87
677	6.35786	12.07432	17.58364	677	0.45	-8.69	-17	-18.9
678	6.374582	12.07432	17.62082	678	0.56	-8.72	-17	-18.97
679	6.391304	12.04054	17.63941	679	0.52	-8.66	-17.01	-19.02
680	6.341137	12.02365	17.60223	680	0.5	-8.67	-17.01	-19.02
681	6.341137	12.02365	17.58364	681	0.49	-8.72	-17.01	-19.06
682	6.374582	12.05743	17.58364	682	0.51	-8.72	-17.01	-18.93
683	6.424749	12.14189	17.58364	683	0.5	-8.69	-17.01	-18.98
684	6.341137	12.10811	17.58364	684	0.47	-8.73	-17.01	-19.02
685	6.274247	11.90541	17.65799	685	0.47	-8.74	-17.01	-18.96
686	6.508361	11.11149	17.58364	686	0.56	-8.72	-17.01	-19.05
687	6.826087	10.23311	17.37918	687	0.66	-8.74	-17.02	-18.98
688	7.093645	10.11486	17.23048	688	0.52	-8.72	-17.02	-18.97
689	7.277592	10.4527	17.17472	689	0.51	-8.72	-17.01	-19.05
690	7.411371	10.84122	17.13755	690	0.61	-8.6	-17.01	-18.84
691	7.377926	11.16216	17.15613	691	0.83	-8.64	-17	-18.74
692	7.277592	11.33108	17.19331	692	0.57	-8.59	-16.99	-18.89
693	7.227425	11.48311	17.26766	693	0.66	-8.65	-17	-18.97
694	7.160535	11.66892	17.2119	694	0.7	-8.68	-17	-19.08
695	7.060201	11.87162	17.26766	695	0.67	-8.62	-17.01	-19.09
696	6.943144	11.98986	17.30483	696	0.38	-8.64	-17.01	-19.03
697	6.876254	12.09122	17.34201	697	0.62	-8.63	-17	-18.95
698	6.792642	12.05743	17.32342	698	0.56	-8.64	-17.01	-19.04
699	6.792642	12.04054	17.34201	699	0.67	-8.64	-17.01	-19.04
700	6.692308	12.07432	17.43494	700	0.63	-8.65	-17	-19.1
701	6.591973	12.10811	17.50929	701	0.58	-8.62	-17	-19.15
702	6.608696	12.10811	17.56506	702	0.48	-8.66	-17	-18.93
703	6.525084	12.05743	17.50929	703	0.57	-8.62	-17	-18.98
704	6.424749	12.14189	17.50929	704	0.49	-8.63	-17	-19.03
705	6.391304	12.26014	17.60223	705	0.55	-8.71	-17	-19.03
706	6.474916	12.24324	17.54647	706	0.56	-8.66	-17	-19.17
707	6.458194	12.3277	17.52788	707	0.63	-8.63	-17	-19.06

708	6.35786	12.3277	17.60223	708	0.54	-8.71	-17	-19.08
709	6.257525	12.37838	17.60223	709	0.55	-8.67	-16.99	-19.15
710	6.29097	12.36149	17.62082	710	0.48	-8.62	-16.99	-19.03
711	6.29097	12.37838	17.60223	711	0.55	-8.69	-17	-19.03
712	6.257525	12.41216	17.49071	712	0.46	-8.74	-17	-18.99
713	6.29097	12.44595	17.54647	713	0.51	-8.69	-17	-19.08
714	6.240803	12.39527	17.60223	714	0.49	-8.7	-17	-19.11
715	6.207358	12.37838	17.52788	715	0.56	-8.72	-16.99	-19.08
716	6.190635	12.26014	17.62082	716	0.57	-8.71	-17	-19.01
717	6.240803	12.125	17.65799	717	0.45	-8.65	-17	-19.09
718	6.22408	12.07432	17.67658	718	0.61	-8.71	-17.01	-19.11
719	6.324415	12.05743	17.65799	719	0.48	-8.72	-17	-19.13
720	6.324415	12.14189	17.56506	720	0.46	-8.67	-17	-19.03
721	6.307692	12.125	17.58364	721	0.54	-8.73	-17	-18.98
722	6.240803	12.15878	17.56506	722	0.56	-8.68	-17	-18.97
723	6.307692	12.22635	17.60223	723	0.41	-8.69	-17.01	-19.03
724	6.22408	12.31081	17.58364	724	0.58	-8.73	-17.01	-19.13
725	6.257525	12.3277	17.58364	725	0.44	-8.73	-17.01	-18.99
726	6.207358	12.3277	17.60223	726	0.5	-8.72	-17.01	-19.08
727	6.173913	12.36149	17.69517	727	0.59	-8.68	-17.01	-19.02
728	6.157191	12.36149	17.73234	728	0.52	-8.67	-17.01	-19.02
729	6.22408	12.34459	17.67658	729	0.65	-8.72	-17.01	-18.99
730	6.240803	12.3277	17.58364	730	0.53	-8.63	-17.01	-18.91
731	6.274247	12.29392	17.60223	731	0.51	-8.71	-17.02	-19
732	6.240803	12.36149	17.67658	732	0.61	-8.71	-17.02	-18.94
733	6.173913	12.39527	17.69517	733	0.52	-8.73	-17.02	-18.87
734	6.157191	12.37838	17.63941	734	0.58	-8.69	-17.03	-18.83
735	6.157191	12.36149	17.69517	735	0.41	-8.69	-17.03	-19.02
736	6.123746	12.26014	17.69517	736	0.62	-8.7	-17.03	-19.05
737	6.140468	12.26014	17.62082	737	0.5	-8.69	-17.03	-19.11
738	6.190635	12.3277	17.56506	738	0.59	-8.68	-17.02	-19.05
739	6.157191	12.36149	17.65799	739	0.54	-8.71	-17.03	-19.09
740	6.157191	12.31081	17.65799	740	0.46	-8.74	-17.03	-18.98
741	6.190635	12.24324	17.58364	741	0.57	-8.71	-17.04	-19
742	6.29097	12.17568	17.50929	742	0.52	-8.73	-17.04	-18.9
743	6.35786	12.17568	17.62082	743	0.55	-8.75	-17.04	-18.84
744	6.374582	12.14189	17.63941	744	0.43	-8.75	-17.03	-18.91
745	6.374582	11.98986	17.62082	745	0.53	-8.7	-17.04	-18.97
746	6.424749	11.83784	17.60223	746	0.49	-8.71	-17.04	-18.98
747	6.458194	11.90541	17.47212	747	0.5	-8.74	-17.03	-19
748	6.508361	12.04054	17.54647	748	0.51	-8.72	-17.03	-18.99
749	6.491639	12.15878	17.49071	749	0.43	-8.71	-17.04	-18.92
750	6.424749	12.20946	17.52788	750	0.37	-8.7	-17.02	-18.85
751	6.391304	12.24324	17.52788	751	0.53	-8.74	-17.02	-18.94
752	6.341137	12.22635	17.56506	752	0.47	-8.74	-17.03	-19.02

753	6.35786	12.27703	17.58364	753	0.48	-8.72	-17.03	-19.02
754	6.374582	12.29392	17.58364	754	0.49	-8.75	-17.03	-18.92
755	6.391304	12.31081	17.65799	755	0.53	-8.74	-17.02	-18.91
756	6.307692	12.39527	17.63941	756	0.58	-8.74	-17.03	-18.94
757	6.324415	12.36149	17.62082	757	0.55	-8.67	-17.03	-18.93
758	6.29097	12.3277	17.65799	758	0.53	-8.72	-17.02	-18.89
759	6.29097	12.29392	17.62082	759	0.5	-8.73	-17.02	-18.97
760	6.22408	12.20946	17.56506	760	0.46	-8.68	-17.03	-18.92
761	6.274247	12.09122	17.60223	761	0.43	-8.72	-17.03	-18.92
762	6.408027	11.77027	17.56506	762	0.42	-8.75	-17.02	-18.92
763	6.608696	11.34797	17.49071	763	0.54	-8.77	-17.03	-18.93
764	6.759197	11.2973	17.30483	764	0.56	-8.73	-17.02	-18.97
765	6.809365	11.51689	17.2119	765	0.52	-8.68	-17.01	-18.99
766	6.809365	11.80405	17.26766	766	0.23	-8.66	-17.01	-18.84
767	6.70903	12.04054	17.34201	767	0.15	-8.52	-17.01	-18.71
768	6.64214	12.10811	17.43494	768	0.54	-8.73	-17.01	-19.07
769	6.692308	11.75338	17.45353	769	0.5	-8.76	-17	-19.14
770	6.742475	11.34797	17.41636	770	0.57	-8.74	-17	-19.07
771	6.809365	11.19595	17.32342	771	0.43	-8.69	-17.01	-19
772	6.892977	11.33108	17.23048	772	0.52	-8.73	-17.02	-19.01
773	6.926421	11.55068	17.19331	773	0.3	-8.77	-17.02	-19.19
774	6.926421	11.75338	17.2119	774	0.42	-8.65	-17.01	-19.1
775	6.926421	11.87162	17.19331	775	0.55	-8.64	-17.01	-18.89
776	6.993311	11.95608	17.30483	776	0.65	-8.74	-17.01	-18.96
777	6.892977	11.97297	17.28625	777	0.69	-8.72	-17.02	-19.02
778	6.826087	12.04054	17.26766	778	0.55	-8.7	-17.02	-19.02
779	6.826087	12.02365	17.32342	779	0.6	-8.72	-17.02	-19.01
780	6.826087	12.09122	17.32342	780	0.62	-8.64	-17.02	-19.03
781	6.809365	12.15878	17.37918	781	0.56	-8.71	-17.03	-19.06
782	6.842809	12.15878	17.39777	782	0.55	-8.66	-17.03	-19.02
783	6.792642	12.09122	17.37918	783	0.59	-8.73	-17.04	-19.01
784	6.77592	12.05743	17.43494	784	0.52	-8.72	-17.04	-19.07
785	6.725753	12.04054	17.41636	785	0.58	-8.71	-17.04	-19.17
786	6.742475	12.09122	17.43494	786	0.54	-8.75	-17.04	-19.14
787	6.70903	12.17568	17.45353	787	0.48	-8.66	-17.04	-19.09
788	6.658863	12.24324	17.39777	788	0.48	-8.73	-17.04	-18.99
789	6.625418	12.26014	17.45353	789	0.52	-8.74	-17.05	-18.94
790	6.558528	12.26014	17.45353	790	0.51	-8.77	-17.04	-19
791	6.591973	12.24324	17.43494	791	0.59	-8.77	-17.05	-19.14
792	6.474916	12.29392	17.41636	792	0.52	-8.77	-17.05	-19.08
793	6.424749	12.3277	17.47212	793	0.36	-8.76	-17.05	-19.11
794	6.458194	12.37838	17.52788	794	0.45	-8.8	-17.05	-19.01
795	6.408027	12.41216	17.52788	795	0.48	-8.78	-17.05	-18.99
796	6.424749	12.39527	17.60223	796	0.48	-8.74	-17.05	-19.06
797	6.341137	12.3277	17.62082	797	0.49	-8.75	-17.05	-19.04

798	6.307692	12.31081	17.54647	798	0.56	-8.75	-17.05	-19.04
799	6.341137	12.26014	17.56506	799	0.36	-8.74	-17.05	-19.12
800	6.341137	12.29392	17.54647	800	0.46	-8.79	-17.04	-19.13
801	6.374582	12.15878	17.56506	801	0.39	-8.7	-17.05	-19.04
802	6.474916	12.02365	17.50929	802	0.46	-8.73	-17.05	-18.97
803	6.491639	12.05743	17.49071	803	0.48	-8.78	-17.06	-19.14
804	6.474916	11.97297	17.41636	804	0.54	-8.79	-17.05	-19.11
805	6.508361	11.98986	17.30483	805	0.33	-8.72	-17.04	-19.06
806	6.525084	12.04054	17.30483	806	0.49	-8.79	-17.05	-18.99
807	6.558528	12.09122	17.36059	807	0.51	-8.73	-17.05	-19.07
808	6.458194	12.09122	17.37918	808	0.49	-8.78	-17.05	-19.03
809	6.458194	12.05743	17.37918	809	0.56	-8.77	-17.05	-19.06
810	6.491639	12.07432	17.45353	810	0.52	-8.81	-17.06	-19.13
811	6.558528	12.07432	17.43494	811	0.52	-8.73	-17.05	-19.18
812	6.541806	12.125	17.41636	812	0.45	-8.77	-17.05	-19.16
813	6.491639	12.14189	17.41636	813	0.51	-8.78	-17.06	-19.08
814	6.491639	12.17568	17.41636	814	0.59	-8.75	-17.06	-19.02
815	6.575251	12.10811	17.43494	815	0.48	-8.72	-17.06	-19.14
816	6.625418	11.88851	17.36059	816	0.53	-8.77	-17.06	-19.05
817	6.70903	11.60135	17.26766	817	0.46	-8.76	-17.05	-19.13
818	6.759197	11.56757	17.28625	818	0.54	-8.79	-17.05	-19.1
819	6.792642	11.53378	17.36059	819	0.51	-8.76	-17.05	-19.05
820	6.876254	11.71959	17.32342	820	0.47	-8.71	-17.06	-18.93
821	6.876254	11.88851	17.30483	821	0.46	-8.76	-17.06	-18.81
822	6.876254	12.04054	17.28625	822	0.34	-8.65	-17.06	-19.05
823	6.77592	12.07432	17.32342	823	0.41	-8.73	-17.06	-18.99
824	6.759197	12.15878	17.36059	824	0.53	-8.78	-17.06	-19.13
825	6.692308	12.20946	17.39777	825	0.51	-8.75	-17.04	-19.07
826	6.608696	12.24324	17.34201	826	0.6	-8.77	-17.05	-19.1
827	6.675585	11.46622	17.36059	827	0.45	-8.75	-17.04	-19.08
828	6.759197	10.52027	17.39777	828	0.48	-8.7	-17.04	-19.12
829	6.759197	10.875	17.39777	829	0.57	-8.77	-17.05	-19.14
830	6.759197	11.36486	17.30483	830	0.54	-8.79	-17.05	-18.99
831	6.77592	11.68581	17.24907	831	0.46	-8.78	-17.05	-18.97
832	6.876254	11.83784	17.24907	832	0.36	-8.72	-17.06	-19.14
833	6.892977	11.0777	17.26766	833	0.51	-8.71	-17.06	-19.09
834	7.093645	10.35135	17.10037	834	0.54	-8.66	-17.05	-19.15
835	7.344482	10.53716	16.9145	835	0.63	-8.72	-17.05	-19.12
836	7.461538	10.84122	16.87732	836	0.58	-8.79	-17.05	-19.13
837	7.561873	11.16216	16.93309	837	0.72	-8.72	-17.04	-18.96
838	7.595318	11.34797	16.97026	838	0.88	-8.64	-17.04	-18.74
839	7.528428	11.16216	16.95167	839	0.68	-8.57	-17.04	-18.86
840	7.545151	11.16216	16.93309	840	0.7	-8.61	-17.03	-18.92
841	7.528428	11.36486	16.87732	841	0.71	-8.57	-17.04	-19.1
842	7.444816	11.55068	16.95167	842	0.55	-8.64	-17.03	-19.06

843	7.377926	11.77027	17.00743	843	0.57	-8.74	-17.03	-18.86
844	7.394649	11.95608	17.00743	844	0.66	-8.74	-17.03	-19.01
845	7.361204	12.09122	17.00743	845	0.59	-8.71	-17.03	-19.12
846	7.210702	12.19257	17.13755	846	0.62	-8.73	-17.04	-19.11
847	7.110368	12.20946	17.19331	847	0.66	-8.65	-17.04	-19.1
848	7.060201	12.26014	17.2119	848	0.51	-8.71	-17.03	-19.1
849	7.026756	12.31081	17.2119	849	0.62	-8.74	-17.05	-19.18
850	6.993311	12.3277	17.28625	850	0.57	-8.69	-17.04	-19.1
851	6.943144	12.27703	17.26766	851	0.56	-8.67	-17.05	-19.12
852	6.959866	12.22635	17.23048	852	0.56	-8.68	-17.06	-19.18
853	6.959866	12.19257	17.26766	853	0.63	-8.67	-17.05	-19.04
854	6.993311	12.09122	17.34201	854	0.59	-8.68	-17.05	-19.03
855	7.010033	12.04054	17.26766	855	0.6	-8.66	-17.05	-19.14
856	6.943144	12.14189	17.24907	856	0.47	-8.74	-17.05	-19.07
857	6.826087	12.22635	17.36059	857	0.59	-8.76	-17.05	-19.11
858	6.909699	12.26014	17.41636	858	0.55	-8.71	-17.05	-19.08
859	6.892977	12.29392	17.36059	859	0.6	-8.77	-17.05	-19.07
860	6.792642	12.34459	17.32342	860	0.63	-8.73	-17.06	-19.14
861	6.759197	12.34459	17.36059	861	0.54	-8.74	-17.06	-19.18
862	6.77592	12.36149	17.37918	862	0.49	-8.71	-17.07	-19.26
863	6.77592	12.37838	17.30483	863	0.58	-8.75	-17.07	-19.1
864	6.725753	12.31081	17.32342	864	0.46	-8.72	-17.06	-19.07
865	6.692308	12.37838	17.32342	865	0.58	-8.71	-17.07	-19.08
866	6.675585	12.46284	17.36059	866	0.53	-8.75	-17.07	-19.02
867	6.625418	12.46284	17.45353	867	0.48	-8.75	-17.07	-19.14
868	6.64214	12.42905	17.36059	868	0.52	-8.78	-17.06	-19.13
869	6.658863	12.3277	17.32342	869	0.53	-8.73	-17.06	-19.17
870	6.658863	12.36149	17.36059	870	0.48	-8.75	-17.06	-19.19
871	6.658863	12.3277	17.41636	871	0.5	-8.73	-17.05	-19.21
872	6.675585	12.29392	17.37918	872	0.47	-8.76	-17.04	-19.18
873	6.625418	12.31081	17.39777	873	0.52	-8.72	-17.05	-19.2
874	6.575251	12.36149	17.37918	874	0.45	-8.7	-17.05	-19.21
875	6.508361	12.39527	17.36059	875	0.48	-8.78	-17.06	-19.17
876	6.541806	12.37838	17.41636	876	0.45	-8.81	-17.05	-19.11
877	6.541806	12.27703	17.43494	877	0.54	-8.78	-17.06	-19.04
878	6.625418	12.24324	17.43494	878	0.51	-8.74	-17.06	-19.09
879	6.608696	12.34459	17.34201	879	0.53	-8.67	-17.06	-19.07
880	6.541806	12.42905	17.36059	880	0.49	-8.77	-17.06	-19.12
881	6.458194	12.41216	17.41636	881	0.48	-8.69	-17.05	-19.19
882	6.458194	12.3277	17.34201	882	0.5	-8.74	-17.06	-19.17
883	6.525084	12.34459	17.32342	883	0.48	-8.72	-17.05	-19.2
884	6.458194	12.41216	17.41636	884	0.6	-8.76	-17.06	-19.13
885	6.424749	12.44595	17.45353	885	0.47	-8.75	-17.06	-19.02
886	6.441472	12.44595	17.49071	886	0.5	-8.71	-17.06	-19.05
887	6.474916	12.36149	17.49071	887	0.54	-8.76	-17.06	-19.09

888	6.458194	12.31081	17.43494	888	0.59	-8.72	-17.05	-19.12
889	6.441472	12.24324	17.45353	889	0.4	-8.77	-17.07	-19.12
890	6.508361	12.125	17.43494	890	0.46	-8.76	-17.08	-19.04
891	6.575251	12.04054	17.36059	891	0.44	-8.77	-17.08	-19.21
892	6.64214	12.15878	17.34201	892	0.49	-8.78	-17.08	-19.25
893	6.625418	12.17568	17.32342	893	0.54	-8.77	-17.06	-19.1
894	6.575251	12.22635	17.36059	894	0.35	-8.73	-17.06	-19.07
895	6.575251	12.3277	17.36059	895	0.48	-8.78	-17.06	-19.17
896	6.575251	12.10811	17.32342	896	0.51	-8.79	-17.06	-19.15
897	6.64214	11.9223	17.30483	897	0.54	-8.76	-17.06	-19.18
898	6.725753	11.95608	17.23048	898	0.49	-8.73	-17.06	-19.11
899	6.859532	11.83784	17.19331	899	0.55	-8.77	-17.06	-19.16
900	6.876254	11.61824	17.19331	900	0.51	-8.79	-17.06	-19.21
901	6.959866	11.66892	17.17472	901	0.5	-8.71	-17.05	-19.31
902	7.026756	11.87162	17.11896	902	0.67	-8.72	-17.06	-19.27

Deli_exp_15

Experiment type: Deliquescence experiment. The regolith type is JSC Mars-1 in this experiment, with a thickness of 2 cm. The initial weight was 366.70 g. 5.5 wt% of calcium perchlorate was added increasing the mass to 386.97 g. The humidity buffer was LiCl which has a RH of 11.31 at 0 degrees Celsius. Chiller was set to -18°C. Temperature around the sample was controlled by the chiller.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= humidity buffer 3= atmosphere 4= sample

Mass Min.	Mass	RH Min.	Ch02	Ch03	Ch04	T Min.	Ch01	Ch02	Ch03	Ch04
1	386.28	0	3.364548	1.760135	0.799257	0	5.26	-5.39	-7.93	-8.88
3	385.05	1	2.779264	3.432432	1.33829	1	-3.52	-8.23	-8.03	-9.37
5	384.59	2	2.093645	4.597973	3.197026	2	-5.73	-8.27	-8.14	-11.16
7	384.48	3	2.160535	6.185811	3.791822	3	-2.31	-7.62	-8.17	-10.7
9	384.48	4	2.896321	7.503378	3.810409	4	-1.15	-7.46	-8.17	-9.93
11	384.48	5	3.682274	6.760135	3.866171	5	-0.75	-7.33	-8.17	-9.11
13	384.49	6	4.133779	3.736486	4.498141	6	-0.54	-6.72	-8.16	-8.37
15	384.49	7	4.267559	0.587838	5.966543	7	-0.13	-6.2	-8.14	-7.86
17	384.49	8	3.698997	4.27027	7.825279	8	0.07	-5.85	-8.15	-7.42

19	384.48	9	2.377926	7.108108	9.628253	9	0.05	-5.54	-8.15	-7.13
21	384.48	10	0.705686	9.185811	11.18959	10	0	-5.27	-8.16	-6.94
23	384.48	11	0.832776	10.60473	12.45353	11	0.05	-5.04	-8.19	-6.82
25	384.48	12	2.170569	11.66892	13.55019	12	0.1	-4.82	-8.19	-6.74
27	384.48	13	3.341137	12.51351	14.4052	13	0.04	-4.63	-8.2	-6.68
29	384.48	14	4.277592	13.20608	15.05576	14	0.1	-4.45	-8.22	-6.63
31	384.48	15	5.09699	13.7973	15.70632	15	0.11	-4.29	-8.24	-6.59
33	384.48	16	5.832776	14.33784	16.30112	16	0.15	-4.14	-8.25	-6.56
35	384.48	17	6.518395	14.79392	16.74721	17	0.14	-4	-8.28	-6.53
37	384.48	18	7.036789	15.13176	17.15613	18	0.13	-3.96	-8.28	-6.57
39	384.48	19	7.237458	15.35135	17.60223	19	-0.15	-3.82	-8.3	-6.67
41	384.48	20	7.254181	15.53716	18.0855	20	0.03	-3.7	-8.32	-6.63
43	384.48	21	7.187291	15.79054	18.51301	21	0.08	-3.56	-8.34	-6.59
45	384.48	22	7.237458	15.99324	18.81041	22	0.09	-3.43	-8.36	-6.56
47	384.48	23	7.337793	16.24662	19.05204	23	0.1	-3.31	-8.36	-6.53
49	384.48	24	7.471572	16.5	19.29368	24	0.11	-3.19	-8.37	-6.5
51	384.48	25	7.655518	16.63514	19.44238	25	0.11	-3.1	-8.39	-6.48
53	384.47	26	7.839465	16.75338	19.5539	26	0.12	-3.01	-8.4	-6.45
55	384.48	27	8.006689	16.85473	19.7026	27	0.12	-2.92	-8.41	-6.43
57	384.48	28	8.123746	16.95608	19.77695	28	0.13	-2.84	-8.42	-6.41
59	384.48	29	8.257525	17.05743	19.98141	29	0.13	-2.76	-8.43	-6.39
61	384.48	30	8.424749	17.14189	20.18587	30	0.13	-2.69	-8.44	-6.36
63	384.48	31	8.508361	17.27703	20.27881	31	0.15	-2.61	-8.43	-6.35
65	384.48	32	8.541806	17.34459	20.40892	32	0.15	-2.54	-8.45	-6.33
67	384.48	33	8.64214	17.42905	20.53903	33	0.14	-2.47	-8.45	-6.3
69	384.48	34	8.725753	17.46284	20.68773	34	0.15	-2.41	-8.46	-6.29
71	384.48	35	8.792642	17.51351	20.83643	35	0.16	-2.35	-8.46	-6.26
73	384.48	36	8.859532	17.59797	20.94796	36	0.17	-2.29	-8.47	-6.24
75	384.48	37	8.926421	17.61486	21.05948	37	0.18	-2.22	-8.47	-6.21
77	384.48	38	8.993311	17.64865	21.18959	38	0.19	-2.17	-8.48	-6.19
79	384.48	39	9.060201	17.68243	21.28253	39	0.18	-2.12	-8.49	-6.18
81	384.48	40	9.060201	17.69932	21.33829	40	0.18	-2.06	-8.49	-6.16
83	384.48	41	9.143813	17.76689	21.43123	41	0.18	-2	-8.48	-6.13
85	384.48	42	9.210702	17.85135	21.52416	42	0.19	-1.94	-8.48	-6.1
87	384.48	43	9.210702	17.85135	21.6171	43	0.19	-1.88	-8.49	-6.08
89	384.48	44	9.277592	17.83446	21.69145	44	0.19	-1.84	-8.51	-6.07
91	384.48	45	9.294314	17.91892	21.78439	45	0.19	-1.79	-8.51	-6.06
93	384.48	46	9.361204	17.96959	21.84015	46	0.21	-1.72	-8.5	-6.03
95	384.48	47	9.361204	17.98649	21.87732	47	0.22	-1.67	-8.5	-6.01
97	384.48	48	9.377926	18.00338	21.9145	48	0.21	-1.61	-8.5	-5.99
99	384.48	49	9.444816	18.02027	21.97026	49	0.23	-1.56	-8.5	-5.97
101	384.48	50	9.411371	18.02027	22.0632	50	0.23	-1.51	-8.5	-5.95
103	384.48	51	9.478261	18.03716	22.11896	51	0.22	-1.47	-8.5	-5.93
105	384.48	52	9.461538	18.08784	22.13755	52	0.19	-1.43	-8.5	-5.92
107	384.48	53	9.478261	18.03716	22.15613	53	0.17	-1.37	-8.49	-5.89

109	384.48	54	9.494983	18.08784	22.23048	54	0.15	-1.33	-8.49	-5.87
111	384.49	55	9.578595	18.15541	22.28625	55	0.15	-1.27	-8.49	-5.84
113	384.49	56	9.628763	18.13851	22.34201	56	0.15	-1.23	-8.49	-5.82
115	384.49	57	9.628763	18.1723	22.41636	57	0.16	-1.17	-8.49	-5.8
117	384.49	58	9.595318	18.20608	22.43494	58	0.17	-1.13	-8.49	-5.77
119	384.49	59	9.595318	18.1723	22.47212	59	0.17	-1.09	-8.5	-5.76
121	384.49	60	9.61204	18.22297	22.52788	60	0.18	-1.05	-8.49	-5.74
123	384.49	61	9.645485	18.23986	22.54647	61	0.18	-1.01	-8.48	-5.72
125	384.49	62	9.61204	18.25676	22.60223	62	0.18	-0.97	-8.47	-5.7
127	384.49	63	9.595318	18.23986	22.62082	63	0.19	-0.93	-8.47	-5.68
129	384.49	64	9.628763	18.27365	22.63941	64	0.2	-0.88	-8.49	-5.65
131	384.5	65	9.645485	18.30743	22.65799	65	0.2	-0.85	-8.51	-5.63
133	384.5	66	9.61204	18.29054	22.67658	66	0.21	-0.81	-8.53	-5.62
135	384.5	67	9.662207	18.34122	22.73234	67	0.21	-0.78	-8.55	-5.6
137	384.5	68	9.695652	18.32432	22.71375	68	0.21	-0.74	-8.57	-5.57
139	384.5	69	9.729097	18.34122	22.73234	69	0.22	-0.7	-8.58	-5.55
141	384.5	70	9.745819	18.29054	22.76952	70	0.23	-0.66	-8.59	-5.53
143	384.5	71	9.712375	18.32432	22.7881	71	0.23	-0.63	-8.59	-5.52
145	384.5	72	9.645485	18.27365	22.80669	72	0.23	-0.6	-8.6	-5.5
147	384.5	73	9.695652	18.29054	22.82528	73	0.24	-0.57	-8.6	-5.48
149	384.51	74	9.67893	18.32432	22.80669	74	0.24	-0.54	-8.58	-5.46
151	384.51	75	9.695652	18.32432	22.80669	75	0.25	-0.51	-8.58	-5.44
153	384.51	76	9.729097	18.34122	22.86245	76	0.25	-0.48	-8.57	-5.42
155	384.51	77	9.695652	18.32432	22.89963	77	0.26	-0.44	-8.56	-5.4
157	384.51	78	9.67893	18.34122	22.88104	78	0.28	-0.41	-8.54	-5.37
159	384.51	79	9.67893	18.39189	22.95539	79	0.28	-0.37	-8.52	-5.36
161	384.51	80	9.729097	18.39189	22.97398	80	0.28	-0.35	-8.52	-5.34
163	384.51	81	9.729097	18.39189	22.91822	81	0.29	-0.32	-8.52	-5.32
165	384.52	82	9.712375	18.44257	22.95539	82	0.3	-0.28	-8.52	-5.3
167	384.52	83	9.729097	18.40878	23.01115	83	0.31	-0.26	-8.52	-5.28
169	384.52	84	9.662207	18.42568	22.97398	84	0.31	-0.23	-8.52	-5.26
171	384.52	85	9.61204	18.44257	23.01115	85	0.32	-0.2	-8.53	-5.25
173	384.52	86	9.628763	18.40878	23.01115	86	0.33	-0.17	-8.52	-5.23
175	384.52	87	9.729097	18.40878	23.02974	87	0.33	-0.14	-8.51	-5.2
177	384.52	88	9.712375	18.42568	23.02974	88	0.34	-0.12	-8.52	-5.19
179	384.52	89	9.662207	18.375	23.06691	89	0.34	-0.1	-8.54	-5.18
181	384.53	90	9.628763	18.35811	23.02974	90	0.34	-0.08	-8.54	-5.17
183	384.53	91	9.61204	18.39189	23.04833	91	0.36	-0.05	-8.51	-5.14
185	384.53	92	9.628763	18.39189	23.10409	92	0.36	-0.03	-8.5	-5.13
187	384.53	93	9.61204	18.40878	23.12268	93	0.36	-0.01	-8.51	-5.12
189	384.53	94	9.578595	18.42568	23.06691	94	0.37	0.02	-8.49	-5.1
191	384.53	95	9.578595	18.40878	23.06691	95	0.38	0.04	-8.48	-5.08
193	384.53	96	9.578595	18.35811	23.0855	96	0.38	0.07	-8.47	-5.06
195	384.54	97	9.545151	18.375	23.12268	97	0.39	0.09	-8.46	-5.04
197	384.54	98	9.61204	18.40878	23.10409	98	0.4	0.12	-8.45	-5.02

199	384.54	99	9.561873	18.40878	23.10409	99	0.4	0.14	-8.45	-5.01
201	384.54	100	9.528428	18.42568	23.14126	100	0.4	0.16	-8.46	-4.99
203	384.54	101	9.511706	18.40878	23.0855	101	0.42	0.18	-8.46	-4.97
205	384.54	102	9.494983	18.44257	23.10409	102	0.42	0.21	-8.45	-4.96
207	384.54	103	9.444816	18.40878	23.14126	103	0.42	0.22	-8.44	-4.95
209	384.55	104	9.428094	18.39189	23.15985	104	0.43	0.24	-8.43	-4.94
211	384.55	105	9.461538	18.39189	23.19703	105	0.43	0.26	-8.43	-4.92
213	384.55	106	9.428094	18.39189	23.17844	106	0.45	0.28	-8.42	-4.9
215	384.55	107	9.461538	18.40878	23.17844	107	0.45	0.3	-8.43	-4.89
217	384.55	108	9.428094	18.40878	23.21561	108	0.45	0.32	-8.43	-4.87
219	384.55	109	9.461538	18.375	23.21561	109	0.47	0.34	-8.43	-4.85
221	384.56	110	9.444816	18.375	23.2342	110	0.49	0.36	-8.42	-4.84
223	384.56	111	9.444816	18.40878	23.2342	111	0.5	0.38	-8.43	-4.84
225	384.56	112	9.428094	18.35811	23.2342	112	0.52	0.4	-8.43	-4.82
227	384.56	113	9.361204	18.32432	23.27138	113	0.54	0.42	-8.41	-4.81
229	384.56	114	9.361204	18.375	23.27138	114	0.54	0.44	-8.41	-4.79
231	384.56	115	9.327759	18.39189	23.2342	115	0.55	0.46	-8.4	-4.78
233	384.57	116	9.361204	18.35811	23.21561	116	0.55	0.47	-8.39	-4.77
235	384.57	117	9.394649	18.40878	23.21561	117	0.56	0.49	-8.38	-4.75
237	384.57	118	9.344482	18.40878	23.19703	118	0.57	0.52	-8.36	-4.73
239	384.57	119	9.344482	18.42568	23.21561	119	0.57	0.53	-8.36	-4.72
241	384.57	120	9.361204	18.40878	23.2342	120	0.58	0.54	-8.35	-4.71
243	384.57	121	9.361204	18.40878	23.21561	121	0.59	0.57	-8.34	-4.68
245	384.57	122	9.361204	18.40878	23.2342	122	0.61	0.59	-8.33	-4.67
247	384.58	123	9.311037	18.375	23.30855	123	0.61	0.6	-8.33	-4.65
249	384.58	124	9.294314	18.35811	23.27138	124	0.61	0.62	-8.32	-4.64
251	384.58	125	9.294314	18.32432	23.25279	125	0.61	0.63	-8.31	-4.63
253	384.58	126	9.277592	18.375	23.2342	126	0.62	0.65	-8.31	-4.62
255	384.58	127	9.244147	18.32432	23.28996	127	0.63	0.67	-8.3	-4.6
257	384.58	128	9.26087	18.34122	23.28996	128	0.64	0.68	-8.31	-4.58
259	384.59	129	9.311037	18.34122	23.28996	129	0.64	0.69	-8.32	-4.57
261	384.59	130	9.294314	18.35811	23.28996	130	0.65	0.71	-8.31	-4.56
263	384.59	131	9.26087	18.35811	23.30855	131	0.65	0.73	-8.28	-4.54
265	384.59	132	9.19398	18.375	23.32714	132	0.67	0.75	-8.25	-4.52
267	384.59	133	9.210702	18.35811	23.28996	133	0.67	0.76	-8.25	-4.51
269	384.59	134	9.294314	18.35811	23.27138	134	0.67	0.77	-8.24	-4.5
271	384.6	135	9.244147	18.35811	23.25279	135	0.68	0.78	-8.25	-4.49
273	384.6	136	9.19398	18.375	23.25279	136	0.69	0.8	-8.24	-4.47
275	384.6	137	9.227425	18.34122	23.28996	137	0.69	0.82	-8.23	-4.46
277	384.6	138	9.210702	18.30743	23.32714	138	0.7	0.83	-8.21	-4.45
279	384.6	139	9.210702	18.30743	23.36431	139	0.71	0.85	-8.19	-4.43
281	384.6	140	9.143813	18.35811	23.32714	140	0.7	0.86	-8.21	-4.42
283	384.6	141	9.076923	18.32432	23.30855	141	0.72	0.88	-8.22	-4.4
285	384.61	142	9.060201	18.35811	23.34572	142	0.72	0.88	-8.23	-4.4
287	384.61	143	9.12709	18.32432	23.34572	143	0.73	0.9	-8.21	-4.38

289	384.61	144	9.12709	18.34122	23.34572	144	0.74	0.92	-8.18	-4.37
291	384.61	145	9.160535	18.34122	23.34572	145	0.74	0.93	-8.18	-4.36
293	384.61	146	9.143813	18.29054	23.32714	146	0.74	0.94	-8.17	-4.35
295	384.61	147	9.143813	18.27365	23.30855	147	0.75	0.95	-8.16	-4.33
297	384.62	148	9.143813	18.32432	23.32714	148	0.75	0.96	-8.15	-4.32
299	384.62	149	9.110368	18.35811	23.34572	149	0.76	0.98	-8.15	-4.31
301	384.62	150	9.060201	18.375	23.34572	150	0.77	1	-8.13	-4.28
303	384.62	151	9.043478	18.40878	23.32714	151	0.78	1.02	-8.11	-4.27
305	384.62	152	9.060201	18.35811	23.34572	152	0.79	1.04	-8.09	-4.25
307	384.62	153	9.110368	18.32432	23.40149	153	0.79	1.04	-8.09	-4.24
309	384.63	154	9.076923	18.35811	23.3829	154	0.79	1.05	-8.09	-4.23
311	384.63	155	9.043478	18.375	23.3829	155	0.8	1.06	-8.08	-4.22
313	384.63	156	9.093645	18.375	23.36431	156	0.81	1.07	-8.07	-4.21
315	384.63	157	9.093645	18.30743	23.36431	157	0.81	1.09	-8.08	-4.2
317	384.63	158	9.076923	18.32432	23.36431	158	0.81	1.1	-8.07	-4.19
319	384.63	159	9.060201	18.34122	23.36431	159	0.81	1.1	-8.06	-4.18
321	384.63	160	9.043478	18.34122	23.3829	160	0.82	1.11	-8.07	-4.17
323	384.64	161	9.060201	18.32432	23.40149	161	0.82	1.12	-8.08	-4.16
325	384.64	162	9.060201	18.34122	23.40149	162	0.83	1.14	-8.06	-4.15
327	384.64	163	9.043478	18.32432	23.40149	163	0.83	1.15	-8.05	-4.14
329	384.64	164	9.060201	18.34122	23.40149	164	0.85	1.17	-8.03	-4.12
331	384.64	165	9.010033	18.35811	23.3829	165	0.86	1.18	-8	-4.1
333	384.64	166	8.959866	18.34122	23.43866	166	0.86	1.19	-7.99	-4.09
335	384.65	167	9.010033	18.34122	23.42007	167	0.87	1.2	-7.98	-4.07
337	384.65	168	8.993311	18.40878	23.3829	168	0.86	1.21	-7.98	-4.07
339	384.65	169	8.959866	18.375	23.42007	169	0.87	1.22	-7.98	-4.06
341	384.65	170	8.926421	18.32432	23.45725	170	0.88	1.23	-7.96	-4.04
343	384.65	171	8.909699	18.30743	23.45725	171	0.88	1.24	-7.94	-4.03
345	384.65	172	8.959866	18.30743	23.43866	172	0.88	1.26	-7.93	-4.02
347	384.65	173	8.959866	18.29054	23.42007	173	0.88	1.26	-7.95	-4.02
349	384.66	174	8.909699	18.30743	23.3829	174	0.89	1.27	-7.93	-4
351	384.66	175	8.926421	18.30743	23.42007	175	0.88	1.27	-7.95	-4
353	384.66	176	8.926421	18.29054	23.47584	176	0.89	1.28	-7.97	-4
355	384.66	177	8.926421	18.32432	23.45725	177	0.89	1.29	-7.98	-3.99
357	384.66	178	8.943144	18.30743	23.47584	178	0.91	1.31	-7.97	-3.97
359	384.66	179	8.926421	18.30743	23.47584	179	0.91	1.31	-7.96	-3.96
361	384.67	180	8.943144	18.30743	23.43866	180	0.91	1.32	-7.94	-3.95
363	384.67	181	8.909699	18.34122	23.40149	181	0.91	1.33	-7.92	-3.93
365	384.67	182	8.926421	18.30743	23.42007	182	0.91	1.33	-7.91	-3.93
367	384.67	183	8.909699	18.25676	23.45725	183	0.91	1.34	-7.91	-3.92
369	384.67	184	8.842809	18.25676	23.47584	184	0.92	1.35	-7.9	-3.9
371	384.67	185	8.809365	18.34122	23.43866	185	0.93	1.37	-7.89	-3.89
373	384.68	186	8.826087	18.32432	23.42007	186	0.93	1.37	-7.88	-3.88
375	384.68	187	8.826087	18.35811	23.40149	187	0.95	1.38	-7.89	-3.86
377	384.68	188	8.859532	18.35811	23.43866	188	0.95	1.39	-7.88	-3.86

379	384.68	189	8.826087	18.32432	23.3829	189	0.95	1.4	-7.86	-3.84
381	384.68	190	8.809365	18.30743	23.43866	190	0.96	1.41	-7.84	-3.83
383	384.68	191	8.826087	18.29054	23.49442	191	0.96	1.42	-7.85	-3.82
385	384.69	192	8.842809	18.27365	23.42007	192	0.96	1.42	-7.84	-3.81
387	384.69	193	8.842809	18.30743	23.42007	193	0.97	1.44	-7.83	-3.8
389	384.69	194	8.826087	18.30743	23.40149	194	0.97	1.44	-7.82	-3.79
391	384.69	195	8.809365	18.29054	23.40149	195	0.98	1.45	-7.81	-3.78
393	384.69	196	8.792642	18.25676	23.43866	196	0.99	1.47	-7.79	-3.76
395	384.69	197	8.792642	18.29054	23.43866	197	0.98	1.47	-7.79	-3.76
397	384.69	198	8.725753	18.27365	23.43866	198	1	1.48	-7.78	-3.74
399	384.7	199	8.77592	18.27365	23.43866	199	1.01	1.49	-7.79	-3.73
401	384.7	200	8.792642	18.30743	23.40149	200	1.01	1.5	-7.77	-3.72
403	384.7	201	8.809365	18.27365	23.42007	201	1.02	1.52	-7.75	-3.71
405	384.7	202	8.792642	18.35811	23.40149	202	1.02	1.53	-7.75	-3.7
407	384.7	203	8.792642	18.40878	23.45725	203	1.02	1.53	-7.75	-3.69
409	384.7	204	8.809365	18.35811	23.47584	204	1.02	1.53	-7.77	-3.68
411	384.71	205	8.759197	18.35811	23.45725	205	1.03	1.54	-7.76	-3.68
413	384.71	206	8.725753	18.34122	23.43866	206	1.03	1.55	-7.74	-3.67
415	384.71	207	8.742475	18.32432	23.47584	207	1.04	1.56	-7.74	-3.66
417	384.71	208	8.742475	18.32432	23.47584	208	1.04	1.57	-7.72	-3.65
419	384.71	209	8.658863	18.32432	23.47584	209	1.06	1.59	-7.7	-3.63
421	384.71	210	8.658863	18.29054	23.49442	210	1.06	1.6	-7.69	-3.62
423	384.72	211	8.725753	18.29054	23.47584	211	1.06	1.6	-7.69	-3.61
425	384.72	212	8.70903	18.32432	23.49442	212	1.07	1.61	-7.69	-3.6
427	384.72	213	8.675585	18.32432	23.45725	213	1.08	1.62	-7.7	-3.59
429	384.72	214	8.658863	18.32432	23.42007	214	1.08	1.63	-7.69	-3.58
431	384.72	215	8.725753	18.30743	23.43866	215	1.08	1.63	-7.68	-3.58
433	384.72	216	8.725753	18.30743	23.45725	216	1.08	1.64	-7.65	-3.57
435	384.73	217	8.692308	18.30743	23.47584	217	1.09	1.65	-7.63	-3.56
437	384.73	218	8.675585	18.34122	23.47584	218	1.09	1.65	-7.63	-3.55
439	384.73	219	8.675585	18.30743	23.43866	219	1.1	1.67	-7.62	-3.53
441	384.73	220	8.675585	18.29054	23.47584	220	1.11	1.68	-7.65	-3.52
443	384.73	221	8.675585	18.29054	23.43866	221	1.11	1.68	-7.66	-3.52
445	384.73	222	8.692308	18.23986	23.40149	222	1.12	1.69	-7.64	-3.5
447	384.73	223	8.675585	18.27365	23.43866	223	1.13	1.7	-7.62	-3.49
449	384.74	224	8.692308	18.30743	23.49442	224	1.14	1.72	-7.62	-3.48
451	384.74	225	8.692308	18.34122	23.49442	225	1.14	1.72	-7.63	-3.47
453	384.74	226	8.658863	18.27365	23.55019	226	1.14	1.73	-7.63	-3.46
455	384.74	227	8.625418	18.29054	23.51301	227	1.14	1.73	-7.63	-3.45
457	384.74	228	8.64214	18.30743	23.51301	228	1.15	1.74	-7.62	-3.45
459	384.74	229	8.575251	18.25676	23.43866	229	1.15	1.75	-7.61	-3.44
461	384.75	230	8.64214	18.25676	23.49442	230	1.15	1.75	-7.6	-3.43
463	384.75	231	8.675585	18.27365	23.5316	231	1.15	1.76	-7.59	-3.42
465	384.75	232	8.625418	18.29054	23.55019	232	1.15	1.76	-7.61	-3.42
467	384.75	233	8.608696	18.25676	23.51301	233	1.16	1.77	-7.59	-3.41

469	384.75	234	8.625418	18.22297	23.51301	234	1.16	1.78	-7.56	-3.4
471	384.75	235	8.608696	18.23986	23.5316	235	1.16	1.78	-7.56	-3.39
473	384.76	236	8.608696	18.27365	23.49442	236	1.18	1.8	-7.55	-3.37
475	384.76	237	8.608696	18.29054	23.51301	237	1.18	1.81	-7.54	-3.36
477	384.76	238	8.625418	18.25676	23.58736	238	1.18	1.81	-7.54	-3.36
479	384.76	239	8.591973	18.30743	23.58736	239	1.18	1.82	-7.55	-3.35
481	384.76	240	8.575251	18.34122	23.51301	240	1.19	1.83	-7.54	-3.34
		241	8.625418	18.30743	23.47584	241	1.19	1.83	-7.54	-3.33
		242	8.591973	18.30743	23.45725	242	1.19	1.83	-7.54	-3.33
		243	8.558528	18.34122	23.49442	243	1.21	1.85	-7.5	-3.32
		244	8.575251	18.30743	23.5316	244	1.21	1.86	-7.47	-3.31
		245	8.575251	18.30743	23.55019	245	1.22	1.87	-7.47	-3.3
		246	8.591973	18.27365	23.49442	246	1.22	1.87	-7.48	-3.29
		247	8.508361	18.29054	23.51301	247	1.22	1.88	-7.48	-3.29
		248	8.575251	18.29054	23.47584	248	1.22	1.88	-7.48	-3.28
		249	8.558528	18.25676	23.47584	249	1.23	1.89	-7.46	-3.28
		250	8.525084	18.27365	23.47584	250	1.24	1.9	-7.45	-3.26
		251	8.558528	18.30743	23.51301	251	1.24	1.91	-7.44	-3.25
		252	8.575251	18.25676	23.5316	252	1.24	1.91	-7.44	-3.25
		253	8.64214	18.25676	23.51301	253	1.25	1.92	-7.46	-3.24
		254	8.625418	18.22297	23.49442	254	1.25	1.92	-7.45	-3.23
		255	8.575251	18.23986	23.43866	255	1.25	1.93	-7.45	-3.23
		256	8.575251	18.27365	23.47584	256	1.26	1.94	-7.45	-3.21
		257	8.575251	18.25676	23.5316	257	1.26	1.94	-7.45	-3.21
		258	8.508361	18.29054	23.5316	258	1.26	1.95	-7.44	-3.2
		259	8.525084	18.29054	23.51301	259	1.27	1.95	-7.41	-3.2
		260	8.541806	18.27365	23.5316	260	1.26	1.96	-7.4	-3.19
		261	8.525084	18.34122	23.55019	261	1.27	1.97	-7.39	-3.18
		262	8.541806	18.30743	23.5316	262	1.28	1.97	-7.41	-3.18
		263	8.558528	18.27365	23.51301	263	1.28	1.98	-7.41	-3.17
		264	8.541806	18.22297	23.55019	264	1.27	1.98	-7.41	-3.16
		265	8.541806	18.20608	23.5316	265	1.28	1.99	-7.4	-3.16
		266	8.558528	18.23986	23.49442	266	1.29	1.99	-7.38	-3.15
		267	8.525084	18.27365	23.5316	267	1.3	2	-7.37	-3.13
		268	8.474916	18.23986	23.5316	268	1.3	2.01	-7.36	-3.13
		269	8.491639	18.25676	23.51301	269	1.31	2.02	-7.36	-3.11
		270	8.541806	18.27365	23.51301	270	1.3	2.02	-7.37	-3.11
		271	8.508361	18.29054	23.51301	271	1.31	2.03	-7.35	-3.11
		272	8.525084	18.29054	23.47584	272	1.32	2.04	-7.33	-3.1
		273	8.508361	18.29054	23.47584	273	1.31	2.04	-7.32	-3.09
		274	8.491639	18.30743	23.51301	274	1.32	2.05	-7.31	-3.08
		275	8.474916	18.27365	23.55019	275	1.33	2.05	-7.31	-3.08
		276	8.525084	18.25676	23.5316	276	1.33	2.06	-7.3	-3.07
		277	8.474916	18.23986	23.51301	277	1.33	2.06	-7.28	-3.06
		278	8.474916	18.23986	23.55019	278	1.33	2.06	-7.28	-3.06

279	8.458194	18.29054	23.5316	279	1.34	2.07	-7.28	-3.05
280	8.491639	18.30743	23.51301	280	1.34	2.08	-7.3	-3.04
281	8.491639	18.34122	23.5316	281	1.35	2.08	-7.3	-3.03
282	8.525084	18.30743	23.51301	282	1.35	2.09	-7.28	-3.02
283	8.525084	18.32432	23.55019	283	1.35	2.09	-7.26	-3.02
284	8.558528	18.29054	23.55019	284	1.36	2.1	-7.24	-3.01
285	8.525084	18.27365	23.51301	285	1.36	2.11	-7.24	-3
286	8.458194	18.27365	23.51301	286	1.36	2.11	-7.24	-2.99
287	8.458194	18.23986	23.51301	287	1.36	2.11	-7.24	-3
288	8.424749	18.23986	23.51301	288	1.37	2.13	-7.22	-2.98
289	8.424749	18.27365	23.55019	289	1.37	2.13	-7.21	-2.97
290	8.424749	18.29054	23.58736	290	1.37	2.13	-7.21	-2.97
291	8.424749	18.22297	23.5316	291	1.38	2.14	-7.2	-2.96
292	8.408027	18.23986	23.5316	292	1.39	2.15	-7.2	-2.95
293	8.458194	18.30743	23.49442	293	1.39	2.15	-7.2	-2.95
294	8.441472	18.27365	23.5316	294	1.39	2.15	-7.21	-2.95
295	8.424749	18.30743	23.5316	295	1.39	2.16	-7.2	-2.94
296	8.508361	18.30743	23.55019	296	1.39	2.16	-7.2	-2.94
297	8.491639	18.20608	23.5316	297	1.39	2.17	-7.18	-2.93
298	8.491639	18.22297	23.51301	298	1.4	2.18	-7.17	-2.92
299	8.458194	18.23986	23.51301	299	1.4	2.18	-7.16	-2.92
300	8.424749	18.25676	23.51301	300	1.4	2.19	-7.15	-2.91
301	8.441472	18.25676	23.51301	301	1.41	2.2	-7.13	-2.9
302	8.408027	18.27365	23.5316	302	1.42	2.2	-7.12	-2.89
303	8.341137	18.27365	23.5316	303	1.42	2.21	-7.13	-2.88
304	8.391304	18.22297	23.55019	304	1.42	2.21	-7.14	-2.88
305	8.408027	18.27365	23.5316	305	1.43	2.22	-7.14	-2.88
306	8.391304	18.30743	23.56877	306	1.43	2.22	-7.13	-2.87
307	8.458194	18.29054	23.55019	307	1.44	2.23	-7.13	-2.87
308	8.424749	18.32432	23.51301	308	1.45	2.24	-7.17	-2.86
309	8.424749	18.27365	23.5316	309	1.45	2.24	-7.17	-2.86
310	8.408027	18.25676	23.55019	310	1.45	2.24	-7.13	-2.85
311	8.408027	18.27365	23.55019	311	1.45	2.25	-7.1	-2.84
312	8.391304	18.30743	23.56877	312	1.46	2.26	-7.08	-2.83
313	8.424749	18.29054	23.5316	313	1.45	2.26	-7.08	-2.83
314	8.458194	18.30743	23.51301	314	1.45	2.26	-7.09	-2.83
315	8.441472	18.30743	23.55019	315	1.45	2.26	-7.09	-2.82
316	8.474916	18.25676	23.5316	316	1.45	2.26	-7.1	-2.82
317	8.441472	18.29054	23.5316	317	1.47	2.27	-7.07	-2.8
318	8.491639	18.23986	23.55019	318	1.47	2.28	-7.07	-2.8
319	8.508361	18.22297	23.55019	319	1.47	2.29	-7.06	-2.79
320	8.508361	18.20608	23.60595	320	1.49	2.3	-7.05	-2.78
321	8.491639	18.27365	23.5316	321	1.48	2.3	-7.05	-2.78
322	8.424749	18.30743	23.55019	322	1.48	2.3	-7.04	-2.78
323	8.35786	18.23986	23.55019	323	1.48	2.3	-7.02	-2.78

324	8.374582	18.22297	23.56877	324	1.49	2.31	-7.02	-2.77
325	8.374582	18.23986	23.58736	325	1.49	2.32	-7.02	-2.76
326	8.408027	18.29054	23.56877	326	1.5	2.33	-7.01	-2.75
327	8.391304	18.27365	23.56877	327	1.5	2.33	-7.01	-2.75
328	8.391304	18.29054	23.5316	328	1.51	2.34	-7.02	-2.74
329	8.35786	18.30743	23.58736	329	1.51	2.34	-7.01	-2.73
330	8.441472	18.30743	23.58736	330	1.51	2.34	-7.04	-2.73
331	8.408027	18.32432	23.51301	331	1.52	2.35	-7.01	-2.72
332	8.341137	18.27365	23.55019	332	1.52	2.35	-6.99	-2.72
333	8.35786	18.29054	23.55019	333	1.52	2.36	-6.98	-2.71
334	8.374582	18.23986	23.51301	334	1.52	2.36	-6.99	-2.71
335	8.408027	18.29054	23.5316	335	1.52	2.37	-6.99	-2.71
336	8.408027	18.23986	23.51301	336	1.52	2.37	-6.98	-2.7
337	8.374582	18.23986	23.51301	337	1.53	2.37	-6.97	-2.69
338	8.424749	18.25676	23.49442	338	1.52	2.37	-6.99	-2.69
339	8.424749	18.30743	23.5316	339	1.52	2.38	-6.98	-2.69
340	8.35786	18.34122	23.49442	340	1.53	2.39	-6.98	-2.68
341	8.374582	18.27365	23.51301	341	1.53	2.39	-6.98	-2.68
342	8.391304	18.23986	23.5316	342	1.54	2.39	-6.96	-2.67
343	8.374582	18.22297	23.56877	343	1.54	2.39	-6.95	-2.67
344	8.408027	18.18919	23.58736	344	1.54	2.39	-6.95	-2.67
345	8.408027	18.22297	23.58736	345	1.54	2.4	-6.96	-2.66
346	8.374582	18.25676	23.60595	346	1.55	2.41	-6.96	-2.66
347	8.408027	18.25676	23.60595	347	1.55	2.41	-6.94	-2.65
348	8.424749	18.25676	23.58736	348	1.55	2.41	-6.94	-2.64
349	8.424749	18.25676	23.55019	349	1.55	2.42	-6.93	-2.64
350	8.374582	18.27365	23.51301	350	1.56	2.42	-6.94	-2.63
351	8.374582	18.32432	23.51301	351	1.55	2.42	-6.95	-2.63
352	8.374582	18.29054	23.55019	352	1.56	2.42	-6.94	-2.63
353	8.408027	18.23986	23.55019	353	1.56	2.43	-6.95	-2.62
354	8.341137	18.25676	23.5316	354	1.57	2.44	-6.94	-2.62
355	8.408027	18.27365	23.5316	355	1.57	2.44	-6.92	-2.61
356	8.391304	18.25676	23.56877	356	1.57	2.44	-6.93	-2.61
357	8.374582	18.20608	23.56877	357	1.57	2.45	-6.93	-2.6
358	8.374582	18.25676	23.55019	358	1.57	2.45	-6.92	-2.6
359	8.35786	18.27365	23.5316	359	1.58	2.46	-6.92	-2.59
360	8.35786	18.23986	23.55019	360	1.58	2.46	-6.92	-2.59
361	8.324415	18.23986	23.51301	361	1.59	2.47	-6.91	-2.58
362	8.341137	18.22297	23.56877	362	1.59	2.47	-6.91	-2.58
363	8.324415	18.1723	23.56877	363	1.59	2.47	-6.89	-2.57
364	8.29097	18.18919	23.5316	364	1.59	2.48	-6.91	-2.57
365	8.341137	18.1723	23.58736	365	1.59	2.47	-6.91	-2.57
366	8.341137	18.23986	23.55019	366	1.59	2.47	-6.9	-2.57
367	8.324415	18.27365	23.56877	367	1.59	2.48	-6.89	-2.57
368	8.324415	18.25676	23.58736	368	1.59	2.48	-6.89	-2.57

369	8.341137	18.22297	23.58736	369	1.6	2.48	-6.9	-2.56
370	8.35786	18.25676	23.58736	370	1.6	2.49	-6.9	-2.55
371	8.341137	18.23986	23.56877	371	1.61	2.5	-6.9	-2.54
372	8.324415	18.23986	23.58736	372	1.62	2.5	-6.88	-2.53
373	8.307692	18.27365	23.5316	373	1.61	2.5	-6.87	-2.53
374	8.29097	18.27365	23.55019	374	1.61	2.5	-6.87	-2.53
375	8.341137	18.23986	23.58736	375	1.61	2.51	-6.87	-2.52
376	8.35786	18.22297	23.5316	376	1.61	2.51	-6.87	-2.52
377	8.324415	18.25676	23.5316	377	1.62	2.52	-6.86	-2.52
378	8.35786	18.30743	23.5316	378	1.62	2.52	-6.84	-2.51
379	8.324415	18.27365	23.51301	379	1.62	2.53	-6.83	-2.5
380	8.324415	18.22297	23.55019	380	1.63	2.53	-6.82	-2.5
381	8.257525	18.27365	23.56877	381	1.62	2.53	-6.84	-2.5
382	8.29097	18.30743	23.58736	382	1.63	2.54	-6.83	-2.5
383	8.35786	18.30743	23.58736	383	1.64	2.55	-6.84	-2.49
384	8.35786	18.25676	23.56877	384	1.64	2.55	-6.84	-2.49
385	8.307692	18.22297	23.56877	385	1.64	2.55	-6.85	-2.48
386	8.324415	18.22297	23.56877	386	1.65	2.55	-6.84	-2.48
387	8.307692	18.23986	23.58736	387	1.65	2.56	-6.82	-2.47
388	8.324415	18.20608	23.56877	388	1.64	2.55	-6.84	-2.48
389	8.341137	18.22297	23.56877	389	1.65	2.56	-6.81	-2.47
390	8.341137	18.22297	23.5316	390	1.65	2.56	-6.8	-2.47
391	8.391304	18.23986	23.5316	391	1.65	2.56	-6.79	-2.46
392	8.391304	18.23986	23.58736	392	1.65	2.57	-6.78	-2.45
393	8.324415	18.23986	23.56877	393	1.65	2.57	-6.78	-2.45
394	8.324415	18.25676	23.58736	394	1.65	2.57	-6.78	-2.45
395	8.29097	18.20608	23.58736	395	1.65	2.57	-6.78	-2.45
396	8.29097	18.23986	23.56877	396	1.65	2.58	-6.77	-2.44
397	8.307692	18.23986	23.58736	397	1.66	2.58	-6.76	-2.43
398	8.274247	18.22297	23.55019	398	1.66	2.58	-6.77	-2.43
399	8.29097	18.1723	23.56877	399	1.66	2.58	-6.77	-2.43
400	8.324415	18.22297	23.58736	400	1.67	2.59	-6.75	-2.42
401	8.341137	18.20608	23.58736	401	1.68	2.6	-6.74	-2.42
402	8.35786	18.20608	23.56877	402	1.67	2.59	-6.74	-2.42
403	8.324415	18.20608	23.60595	403	1.67	2.6	-6.75	-2.42
404	8.257525	18.20608	23.60595	404	1.68	2.61	-6.74	-2.41
405	8.257525	18.20608	23.58736	405	1.68	2.61	-6.73	-2.4
406	8.274247	18.20608	23.56877	406	1.68	2.61	-6.73	-2.41
407	8.257525	18.22297	23.56877	407	1.69	2.62	-6.73	-2.39
408	8.240803	18.22297	23.58736	408	1.68	2.62	-6.72	-2.4
409	8.240803	18.22297	23.60595	409	1.68	2.62	-6.71	-2.39
410	8.29097	18.23986	23.60595	410	1.69	2.63	-6.71	-2.39
411	8.274247	18.25676	23.60595	411	1.7	2.64	-6.71	-2.38
412	8.190635	18.22297	23.60595	412	1.7	2.64	-6.71	-2.38
413	8.240803	18.25676	23.55019	413	1.7	2.64	-6.7	-2.38

414	8.274247	18.29054	23.56877	414	1.7	2.64	-6.7	-2.38
415	8.257525	18.25676	23.56877	415	1.71	2.65	-6.69	-2.36
416	8.22408	18.25676	23.5316	416	1.7	2.64	-6.69	-2.37
417	8.22408	18.25676	23.55019	417	1.71	2.65	-6.68	-2.36
418	8.240803	18.25676	23.56877	418	1.7	2.65	-6.68	-2.36
419	8.257525	18.20608	23.55019	419	1.71	2.65	-6.68	-2.35
420	8.274247	18.23986	23.58736	420	1.7	2.65	-6.7	-2.36
421	8.29097	18.18919	23.55019	421	1.71	2.65	-6.69	-2.35
422	8.22408	18.22297	23.60595	422	1.71	2.66	-6.68	-2.35
423	8.173913	18.23986	23.62454	423	1.71	2.66	-6.66	-2.34
424	8.207358	18.23986	23.60595	424	1.72	2.67	-6.67	-2.33
425	8.257525	18.25676	23.56877	425	1.72	2.67	-6.66	-2.34
426	8.274247	18.20608	23.58736	426	1.72	2.67	-6.67	-2.33
427	8.29097	18.20608	23.56877	427	1.73	2.68	-6.67	-2.32
428	8.240803	18.22297	23.60595	428	1.74	2.69	-6.65	-2.31
429	8.240803	18.23986	23.60595	429	1.73	2.68	-6.65	-2.31
430	8.240803	18.23986	23.55019	430	1.73	2.69	-6.64	-2.31
431	8.240803	18.27365	23.58736	431	1.73	2.68	-6.63	-2.31
432	8.274247	18.29054	23.64312	432	1.73	2.69	-6.63	-2.31
433	8.29097	18.29054	23.60595	433	1.73	2.69	-6.63	-2.31
434	8.307692	18.29054	23.55019	434	1.74	2.69	-6.64	-2.3
435	8.29097	18.25676	23.56877	435	1.73	2.69	-6.65	-2.3
436	8.307692	18.22297	23.56877	436	1.74	2.7	-6.65	-2.3
437	8.341137	18.23986	23.5316	437	1.74	2.7	-6.64	-2.3
438	8.257525	18.20608	23.55019	438	1.74	2.7	-6.64	-2.29
439	8.22408	18.18919	23.5316	439	1.74	2.7	-6.63	-2.29
440	8.257525	18.1723	23.55019	440	1.74	2.71	-6.63	-2.28
441	8.274247	18.20608	23.5316	441	1.75	2.71	-6.62	-2.28
442	8.257525	18.22297	23.55019	442	1.75	2.71	-6.6	-2.27
443	8.29097	18.25676	23.58736	443	1.75	2.71	-6.6	-2.27
444	8.324415	18.27365	23.56877	444	1.75	2.71	-6.59	-2.27
445	8.240803	18.20608	23.56877	445	1.76	2.72	-6.59	-2.26
446	8.240803	18.23986	23.58736	446	1.76	2.72	-6.6	-2.27
447	8.257525	18.25676	23.56877	447	1.76	2.72	-6.59	-2.27
448	8.29097	18.25676	23.55019	448	1.77	2.73	-6.58	-2.26
449	8.29097	18.20608	23.55019	449	1.77	2.73	-6.57	-2.25
450	8.257525	18.23986	23.49442	450	1.77	2.73	-6.56	-2.25
451	8.240803	18.23986	23.58736	451	1.77	2.73	-6.57	-2.25
452	8.22408	18.25676	23.56877	452	1.77	2.74	-6.57	-2.24
453	8.207358	18.22297	23.55019	453	1.77	2.74	-6.57	-2.24
454	8.240803	18.23986	23.55019	454	1.79	2.75	-6.57	-2.23
455	8.240803	18.1723	23.58736	455	1.78	2.75	-6.58	-2.24
456	8.240803	18.18919	23.55019	456	1.79	2.75	-6.56	-2.23
457	8.307692	18.22297	23.56877	457	1.79	2.76	-6.53	-2.22
458	8.324415	18.23986	23.58736	458	1.79	2.76	-6.53	-2.22

459	8.240803	18.20608	23.62454	459	1.79	2.77	-6.53	-2.21
460	8.257525	18.18919	23.66171	460	1.81	2.78	-6.52	-2.2
461	8.274247	18.1723	23.64312	461	1.81	2.78	-6.52	-2.2
462	8.29097	18.22297	23.58736	462	1.8	2.77	-6.52	-2.21
463	8.240803	18.27365	23.58736	463	1.8	2.77	-6.52	-2.2
464	8.257525	18.30743	23.56877	464	1.8	2.78	-6.52	-2.2
465	8.240803	18.25676	23.58736	465	1.81	2.79	-6.5	-2.19
466	8.207358	18.22297	23.58736	466	1.8	2.78	-6.52	-2.19
467	8.257525	18.22297	23.5316	467	1.81	2.79	-6.52	-2.19
468	8.240803	18.22297	23.58736	468	1.8	2.79	-6.5	-2.19
469	8.207358	18.22297	23.58736	469	1.81	2.79	-6.49	-2.19
470	8.22408	18.27365	23.58736	470	1.81	2.79	-6.49	-2.19
471	8.257525	18.25676	23.58736	471	1.81	2.79	-6.5	-2.18
472	8.240803	18.23986	23.56877	472	1.81	2.79	-6.5	-2.18
473	8.22408	18.23986	23.55019	473	1.81	2.79	-6.5	-2.19
474	8.22408	18.27365	23.60595	474	1.81	2.79	-6.49	-2.18
475	8.22408	18.27365	23.62454	475	1.81	2.8	-6.49	-2.18
476	8.257525	18.25676	23.62454	476	1.8	2.79	-6.48	-2.18
477	8.307692	18.18919	23.58736	477	1.81	2.81	-6.46	-2.17
478	8.274247	18.22297	23.62454	478	1.81	2.8	-6.47	-2.17
479	8.257525	18.27365	23.5316	479	1.81	2.8	-6.47	-2.17
480	8.22408	18.20608	23.55019	480	1.81	2.81	-6.46	-2.18

Deli_exp_16

Experiment type: Deliquescence experiment. This experiment consisted of just calcium perchlorate, weighing 97.20 g. The humidity buffer was MgCl which has a RH of 33.66% at 0 degrees Celsius. Chiller was set to -18°C. Temperature around the sample was controlled by the chiller.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= humidity buffer 3= atmosphere 4= sample

Mass Min.	Mass	RH Min.	Ch02	Ch03	Ch04	T Min.	Ch01	Ch02	Ch03	Ch04
0	97.21	0	3.324415	0.722973	11.04089	0	7.91	-4.24	-8.45	-8.43
2	97.27	1	3.22408	6.962838	11.95167	1	4.05	-4.54	-8.4	-8.36
4	96.85	2	2.438127	9.462838	12.84387	2	-4.25	-6.68	-8.47	-10.4
6	96.36	3	0.916388	10.61149	13.14126	3	-6.11	-6.38	-8.51	-11.01

8	96.24	4	0.705686	10.23986	12.95539	4	-3.81	-5.78	-8.49	-10.86
10	96.26	5	1.959866	7.756757	12.49071	5	-2.91	-5.68	-8.46	-10.05
12	96.29	6	2.762542	3.601351	12.0632	6	-1.58	-4.81	-8.41	-9.19
14	96.31	7	3.113712	0.672297	11.82156	7	-0.84	-4.13	-8.37	-8.64
16	96.31	8	2.963211	4.050676	11.72862	8	-0.81	-3.74	-8.32	-8.3
18	96.3	9	2.010033	6.702703	11.80297	9	-0.9	-3.47	-8.28	-8.12
20	96.29	10	0.571906	8.746622	11.97026	10	-1.04	-3.26	-8.27	-7.96
22	96.28	11	0.732441	10.28378	12.11896	11	-1.12	-3.07	-8.27	-7.82
24	96.26	12	1.90301	11.38176	12.26766	12	-1.14	-2.9	-8.25	-7.71
26	96.25	13	3.040134	12.26014	12.43494	13	-1.18	-2.75	-8.26	-7.62
28	96.23	14	3.859532	12.90203	12.58364	14	-1.14	-2.62	-8.26	-7.56
30	96.22	15	4.294314	13.34122	12.69517	15	-0.88	-2.57	-8.26	-7.61
32	96.2	16	4.461538	13.71284	12.82528	16	-0.75	-2.46	-8.26	-7.62
34	96.19	17	4.61204	14	12.9368	17	-0.73	-2.39	-8.28	-7.59
36	96.18	18	4.862876	14.25338	12.91822	18	-0.73	-2.33	-8.3	-7.56
38	96.17	19	5.09699	14.43919	12.91822	19	-0.72	-2.26	-8.31	-7.52
40	96.16	20	5.314381	14.57432	12.88104	20	-0.71	-2.2	-8.32	-7.48
42	96.16	21	5.448161	14.67568	12.88104	21	-0.7	-2.14	-8.33	-7.45
44	96.15	22	5.531773	14.77703	12.89963	22	-0.69	-2.09	-8.33	-7.41
46	96.15	23	5.715719	14.97973	12.91822	23	-0.68	-2.03	-8.31	-7.38
48	96.15	24	5.849498	15.16554	12.86245	24	-0.67	-1.98	-8.3	-7.34
50	96.14	25	5.93311	15.21622	12.80669	25	-0.67	-1.93	-8.3	-7.32
52	96.14	26	6.016722	15.21622	12.86245	26	-0.67	-1.89	-8.3	-7.29
54	96.14	27	6.100334	15.21622	12.9368	27	-0.67	-1.85	-8.31	-7.27
56	96.14	28	6.167224	15.31757	12.99257	28	-0.67	-1.81	-8.32	-7.24
58	96.13	29	6.167224	15.35135	13.02974	29	-0.66	-1.77	-8.33	-7.22
60	96.13	30	6.217391	15.40203	13.12268	30	-0.65	-1.71	-8.32	-7.18
62	96.13	31	6.317726	15.43581	13.27138	31	-0.65	-1.67	-8.33	-7.16
64	96.13	32	6.384615	15.57095	13.49442	32	-0.65	-1.64	-8.35	-7.14
66	96.12	33	6.401338	15.62162	13.94052	33	-0.65	-1.6	-8.36	-7.11
68	96.12	34	6.48495	15.77365	14.53532	34	-0.67	-1.56	-8.37	-7.09
70	96.12	35	6.568562	15.90878	15.18587	35	-0.71	-1.52	-8.38	-7.07
72	96.12	36	6.685619	16.09459	15.83643	36	-0.72	-1.47	-8.38	-7.04
74	96.12	37	6.886288	16.2973	16.33829	37	-0.72	-1.43	-8.39	-7.03
76	96.11	38	7.036789	16.44932	16.72862	38	-0.72	-1.38	-8.4	-7.01
78	96.11	39	7.120401	16.58446	17.0632	39	-0.71	-1.32	-8.41	-6.98
80	96.11	40	7.170569	16.66892	17.36059	40	-0.7	-1.26	-8.42	-6.96
82	96.11	41	7.220736	16.82095	17.62082	41	-0.7	-1.22	-8.44	-6.95
84	96.11	42	7.270903	16.88851	17.88104	42	-0.69	-1.17	-8.44	-6.93
86	96.11	43	7.354515	16.93919	18.0855	43	-0.68	-1.13	-8.45	-6.91
88	96.1	44	7.438127	17.02365	18.32714	44	-0.67	-1.09	-8.46	-6.89
90	96.1	45	7.438127	17.14189	18.62454	45	-0.66	-1.04	-8.47	-6.86
92	96.1	46	7.454849	17.20946	18.829	46	-0.65	-0.99	-8.48	-6.84
94	96.1	47	7.505017	17.26014	19.07063	47	-0.65	-0.94	-8.49	-6.82
96	96.1	48	7.588629	17.37838	19.27509	48	-0.64	-0.89	-8.5	-6.8

98	96.1	49	7.655518	17.39527	19.47955	49	-0.64	-0.85	-8.5	-6.78
100	96.09	50	7.672241	17.39527	19.66543	50	-0.63	-0.8	-8.5	-6.76
102	96.09	51	7.672241	17.44595	19.86989	51	-0.61	-0.75	-8.51	-6.74
104	96.09	52	7.605351	17.46284	20.05576	52	-0.6	-0.7	-8.51	-6.72
106	96.09	53	7.722408	17.56419	20.24164	53	-0.59	-0.66	-8.5	-6.7
108	96.09	54	7.722408	17.59797	20.42751	54	-0.58	-0.62	-8.49	-6.68
110	96.09	55	7.755853	17.58108	20.5948	55	-0.58	-0.59	-8.49	-6.67
112	96.09	56	7.73913	17.63176	20.68773	56	-0.57	-0.54	-8.49	-6.64
114	96.09	57	7.73913	17.66554	20.79926	57	-0.56	-0.51	-8.49	-6.63
116	96.09	58	7.772575	17.68243	20.87361	58	-0.55	-0.47	-8.47	-6.61
118	96.09	59	7.789298	17.71622	20.94796	59	-0.54	-0.43	-8.45	-6.59
120	96.08	60	7.839465	17.75	21.04089	60	-0.52	-0.39	-8.45	-6.57
122	96.08	61	7.80602	17.75	21.13383	61	-0.52	-0.36	-8.48	-6.55
124	96.08	62	7.80602	17.76689	21.22677	62	-0.51	-0.33	-8.47	-6.53
126	96.08	63	7.789298	17.73311	21.22677	63	-0.49	-0.29	-8.48	-6.51
128	96.08	64	7.789298	17.80068	21.28253	64	-0.48	-0.26	-8.48	-6.49
130	96.08	65	7.789298	17.81757	21.35688	65	-0.47	-0.23	-8.46	-6.47
132	96.08	66	7.839465	17.83446	21.43123	66	-0.47	-0.2	-8.45	-6.46
134	96.08	67	7.822742	17.80068	21.48699	67	-0.46	-0.17	-8.44	-6.44
136	96.08	68	7.755853	17.86824	21.50558	68	-0.44	-0.14	-8.43	-6.43
138	96.08	69	7.73913	17.85135	21.50558	69	-0.41	-0.11	-8.43	-6.41
140	96.08	70	7.73913	17.85135	21.54275	70	-0.4	-0.08	-8.43	-6.39
142	96.08	71	7.755853	17.85135	21.56134	71	-0.39	-0.05	-8.42	-6.37
144	96.07	72	7.688963	17.86824	21.59851	72	-0.38	-0.03	-8.41	-6.36
146	96.07	73	7.722408	17.83446	21.63569	73	-0.38	-0.01	-8.4	-6.35
148	96.07	74	7.688963	17.83446	21.63569	74	-0.37	0.02	-8.39	-6.33
150	96.07	75	7.722408	17.83446	21.69145	75	-0.36	0.04	-8.39	-6.31
152	96.07	76	7.655518	17.85135	21.7658	76	-0.36	0.06	-8.4	-6.3
154	96.07	77	7.622074	17.86824	21.85874	77	-0.35	0.09	-8.39	-6.28
156	96.07	78	7.638796	17.86824	21.84015	78	-0.33	0.11	-8.38	-6.26
158	96.07	79	7.622074	17.88514	21.85874	79	-0.32	0.14	-8.38	-6.25
160	96.07	80	7.588629	17.85135	21.87732	80	-0.32	0.16	-8.38	-6.23
162	96.07	81	7.588629	17.85135	21.82156	81	-0.31	0.18	-8.37	-6.21
164	96.07	82	7.588629	17.90203	21.80297	82	-0.3	0.2	-8.37	-6.2
166	96.07	83	7.588629	17.91892	21.85874	83	-0.29	0.23	-8.36	-6.18
168	96.07	84	7.538462	17.93581	21.84015	84	-0.29	0.25	-8.35	-6.17
170	96.07	85	7.521739	17.93581	21.85874	85	-0.27	0.27	-8.34	-6.15
172	96.07	86	7.505017	17.91892	21.84015	86	-0.27	0.29	-8.33	-6.14
174	96.06	87	7.454849	17.91892	21.84015	87	-0.26	0.31	-8.33	-6.12
176	96.06	88	7.438127	17.86824	21.9145	88	-0.26	0.33	-8.33	-6.1
178	96.06	89	7.488294	17.88514	21.9145	89	-0.25	0.34	-8.34	-6.09
180	96.06	90	7.488294	17.88514	21.95167	90	-0.24	0.36	-8.32	-6.08
182	96.06	91	7.488294	17.90203	21.95167	91	-0.24	0.38	-8.32	-6.06
184	96.06	92	7.421405	17.9527	22.00743	92	-0.23	0.4	-8.33	-6.05
186	96.06	93	7.421405	17.88514	21.97026	93	-0.22	0.42	-8.32	-6.03

188	96.06	94	7.421405	17.90203	22.00743	94	-0.22	0.43	-8.33	-6.03
190	96.06	95	7.404682	17.90203	22.02602	95	-0.21	0.45	-8.31	-6.01
192	96.06	96	7.354515	17.90203	22.02602	96	-0.2	0.47	-8.31	-5.99
194	96.06	97	7.287625	17.90203	22.0632	97	-0.19	0.49	-8.32	-5.97
196	96.06	98	7.337793	17.88514	22.0632	98	-0.19	0.5	-8.31	-5.97
198	96.06	99	7.337793	17.88514	22.10037	99	-0.18	0.51	-8.3	-5.95
200	96.06	100	7.304348	17.90203	22.0632	100	-0.18	0.53	-8.3	-5.94
202	96.06	101	7.354515	17.90203	22.0632	101	-0.17	0.55	-8.27	-5.91
204	96.06	102	7.32107	17.88514	22.10037	102	-0.16	0.56	-8.26	-5.9
206	96.06	103	7.287625	17.88514	22.15613	103	-0.15	0.58	-8.25	-5.88
208	96.06	104	7.287625	17.88514	22.13755	104	-0.14	0.6	-8.23	-5.87
210	96.06	105	7.254181	17.86824	22.10037	105	-0.13	0.62	-8.22	-5.85
212	96.06	106	7.237458	17.88514	22.10037	106	-0.13	0.63	-8.24	-5.84
214	96.06	107	7.237458	17.86824	22.08178	107	-0.13	0.64	-8.23	-5.83
216	96.06	108	7.220736	17.85135	22.0632	108	-0.13	0.65	-8.23	-5.83
218	96.05	109	7.220736	17.91892	22.10037	109	-0.11	0.67	-8.23	-5.81
220	96.05	110	7.153846	17.83446	22.11896	110	-0.1	0.68	-8.21	-5.79
222	96.05	111	7.120401	17.81757	22.13755	111	-0.1	0.69	-8.21	-5.78
224	96.05	112	7.137124	17.90203	22.17472	112	-0.1	0.7	-8.22	-5.77
226	96.05	113	7.170569	17.88514	22.19331	113	-0.09	0.72	-8.21	-5.75
228	96.05	114	7.170569	17.85135	22.19331	114	-0.08	0.73	-8.2	-5.74
230	96.05	115	7.120401	17.85135	22.19331	115	-0.08	0.74	-8.2	-5.73
232	96.05	116	7.086957	17.85135	22.17472	116	-0.08	0.75	-8.21	-5.72
234	96.05	117	7.053512	17.88514	22.17472	117	-0.07	0.77	-8.21	-5.7
236	96.05	118	7.053512	17.83446	22.17472	118	-0.06	0.78	-8.19	-5.69
238	96.05	119	6.986622	17.83446	22.15613	119	-0.06	0.79	-8.18	-5.68
240	96.05	120	6.9699	17.85135	22.11896	120	-0.05	0.81	-8.17	-5.66
242	96.05	121	6.9699	17.88514	22.17472	121	-0.04	0.82	-8.16	-5.65
244	96.05	122	7.036789	17.81757	22.15613	122	-0.05	0.82	-8.16	-5.65
246	96.05	123	7.036789	17.83446	22.11896	123	-0.04	0.83	-8.15	-5.63
248	96.05	124	6.9699	17.85135	22.19331	124	-0.03	0.85	-8.15	-5.61
250	96.05	125	6.953177	17.88514	22.19331	125	-0.02	0.87	-8.15	-5.59
252	96.05	126	6.936455	17.83446	22.17472	126	-0.01	0.88	-8.14	-5.58
254	96.05	127	6.986622	17.85135	22.17472	127	0	0.89	-8.11	-5.57
256	96.05	128	6.953177	17.88514	22.19331	128	0	0.9	-8.11	-5.56
258	96.05	129	6.90301	17.88514	22.23048	129	0	0.91	-8.11	-5.55
260	96.05	130	6.886288	17.90203	22.23048	130	0.01	0.92	-8.1	-5.54
262	96.05	131	6.869565	17.83446	22.24907	131	0.01	0.93	-8.09	-5.53
264	96.05	132	6.802676	17.81757	22.23048	132	0.02	0.94	-8.07	-5.52
266	96.05	133	6.785953	17.83446	22.24907	133	0.02	0.95	-8.07	-5.51
268	96.04	134	6.785953	17.81757	22.28625	134	0.03	0.96	-8.06	-5.5
270	96.04	135	6.802676	17.81757	22.24907	135	0.03	0.97	-8.06	-5.49
272	96.04	136	6.819398	17.88514	22.24907	136	0.04	0.98	-8.05	-5.48
274	96.04	137	6.752508	17.90203	22.2119	137	0.04	0.99	-8.04	-5.47
276	96.04	138	6.719064	17.85135	22.23048	138	0.05	1.01	-8.04	-5.45

278	96.04	139	6.668896	17.86824	22.23048	139	0.06	1.02	-8.03	-5.44
280	96.04	140	6.685619	17.88514	22.23048	140	0.07	1.03	-8.01	-5.43
282	96.04	141	6.668896	17.85135	22.28625	141	0.07	1.04	-7.99	-5.42
284	96.04	142	6.652174	17.85135	22.28625	142	0.08	1.05	-7.99	-5.4
286	96.04	143	6.668896	17.83446	22.24907	143	0.08	1.06	-8	-5.39
288	96.04	144	6.652174	17.83446	22.30483	144	0.09	1.07	-8	-5.38
290	96.04	145	6.618729	17.78378	22.34201	145	0.09	1.07	-7.99	-5.37
292	96.04	146	6.618729	17.78378	22.32342	146	0.09	1.08	-7.98	-5.36
294	96.04	147	6.668896	17.81757	22.30483	147	0.09	1.09	-7.98	-5.35
296	96.04	148	6.702341	17.81757	22.30483	148	0.1	1.1	-7.98	-5.34
298	96.04	149	6.668896	17.85135	22.32342	149	0.11	1.11	-7.97	-5.32
300	96.04	150	6.602007	17.76689	22.32342	150	0.11	1.12	-7.96	-5.31
302	96.04	151	6.585284	17.81757	22.30483	151	0.11	1.12	-7.96	-5.31
304	96.04	152	6.602007	17.80068	22.26766	152	0.11	1.12	-7.98	-5.31
306	96.04	153	6.551839	17.80068	22.28625	153	0.12	1.13	-7.98	-5.3
308	96.04	154	6.535117	17.81757	22.30483	154	0.12	1.14	-7.98	-5.29
310	96.04	155	6.468227	17.83446	22.36059	155	0.12	1.15	-7.95	-5.28
312	96.04	156	6.501672	17.83446	22.32342	156	0.13	1.16	-7.91	-5.27
314	96.04	157	6.551839	17.80068	22.32342	157	0.13	1.17	-7.9	-5.26
316	96.04	158	6.568562	17.76689	22.36059	158	0.14	1.18	-7.89	-5.24
318	96.04	159	6.551839	17.76689	22.34201	159	0.14	1.19	-7.9	-5.24
320	96.04	160	6.551839	17.78378	22.32342	160	0.15	1.2	-7.9	-5.23
322	96.04	161	6.535117	17.75	22.30483	161	0.16	1.2	-7.89	-5.22
324	96.04	162	6.568562	17.80068	22.32342	162	0.16	1.22	-7.89	-5.2
326	96.03	163	6.518395	17.81757	22.36059	163	0.17	1.23	-7.88	-5.19
328	96.03	164	6.451505	17.83446	22.34201	164	0.17	1.23	-7.87	-5.18
330	96.03	165	6.468227	17.81757	22.28625	165	0.18	1.24	-7.85	-5.17
332	96.03	166	6.41806	17.81757	22.34201	166	0.18	1.25	-7.83	-5.16
334	96.03	167	6.41806	17.81757	22.34201	167	0.19	1.26	-7.82	-5.15
336	96.03	168	6.434783	17.80068	22.36059	168	0.19	1.27	-7.8	-5.13
338	96.03	169	6.434783	17.83446	22.39777	169	0.19	1.27	-7.79	-5.13
340	96.03	170	6.434783	17.80068	22.34201	170	0.19	1.27	-7.8	-5.13
342	96.03	171	6.468227	17.85135	22.37918	171	0.2	1.28	-7.8	-5.12
344	96.03	172	6.41806	17.83446	22.37918	172	0.2	1.28	-7.8	-5.12
346	96.03	173	6.41806	17.81757	22.37918	173	0.2	1.29	-7.8	-5.1
348	96.03	174	6.401338	17.76689	22.41636	174	0.21	1.31	-7.77	-5.09
350	96.03	175	6.401338	17.78378	22.37918	175	0.22	1.32	-7.78	-5.08
352	96.03	176	6.367893	17.73311	22.39777	176	0.23	1.33	-7.77	-5.06
354	96.03	177	6.384615	17.75	22.36059	177	0.23	1.33	-7.76	-5.06
356	96.03	178	6.317726	17.78378	22.34201	178	0.23	1.33	-7.74	-5.05
358	96.03	179	6.301003	17.78378	22.41636	179	0.24	1.35	-7.74	-5.04
360	96.03	180	6.384615	17.76689	22.39777	180	0.24	1.35	-7.76	-5.03
362	96.03	181	6.41806	17.76689	22.39777	181	0.25	1.37	-7.75	-5.01
364	96.03	182	6.384615	17.78378	22.37918	182	0.25	1.37	-7.74	-5.01
366	96.03	183	6.351171	17.75	22.37918	183	0.25	1.37	-7.75	-5

368	96.03	184	6.317726	17.78378	22.37918	184	0.26	1.38	-7.74	-4.99
370	96.03	185	6.267559	17.83446	22.39777	185	0.26	1.39	-7.72	-4.99
372	96.03	186	6.284281	17.80068	22.39777	186	0.26	1.39	-7.69	-4.98
374	96.03	187	6.250836	17.76689	22.39777	187	0.26	1.4	-7.69	-4.97
376	96.03	188	6.250836	17.78378	22.41636	188	0.27	1.4	-7.68	-4.96
378	96.02	189	6.284281	17.80068	22.37918	189	0.27	1.41	-7.68	-4.96
380	96.03	190	6.267559	17.75	22.37918	190	0.28	1.42	-7.66	-4.94
382	96.02	191	6.200669	17.85135	22.43494	191	0.28	1.42	-7.64	-4.94
384	96.02	192	6.217391	17.81757	22.43494	192	0.28	1.43	-7.63	-4.93
386	96.02	193	6.200669	17.75	22.43494	193	0.29	1.44	-7.62	-4.92
388	96.02	194	6.200669	17.76689	22.39777	194	0.29	1.44	-7.63	-4.92
390	96.02	195	6.234114	17.76689	22.41636	195	0.3	1.45	-7.64	-4.9
392	96.02	196	6.234114	17.80068	22.45353	196	0.3	1.46	-7.67	-4.9
394	96.02	197	6.217391	17.80068	22.45353	197	0.3	1.46	-7.69	-4.9
396	96.02	198	6.200669	17.75	22.50929	198	0.31	1.47	-7.69	-4.88
398	96.02	199	6.200669	17.75	22.50929	199	0.3	1.47	-7.7	-4.88
400	96.02	200	6.217391	17.73311	22.45353	200	0.31	1.48	-7.65	-4.87
402	96.02	201	6.183946	17.80068	22.39777	201	0.32	1.49	-7.62	-4.86
404	96.02	202	6.183946	17.76689	22.43494	202	0.33	1.5	-7.6	-4.85
406	96.02	203	6.167224	17.76689	22.37918	203	0.33	1.51	-7.58	-4.84
		204	6.183946	17.75	22.34201	204	0.34	1.52	-7.57	-4.83
		205	6.250836	17.73311	22.37918	205	0.34	1.52	-7.57	-4.83
		206	6.217391	17.75	22.43494	206	0.34	1.52	-7.56	-4.82
		207	6.167224	17.76689	22.43494	207	0.33	1.52	-7.56	-4.83
		208	6.200669	17.76689	22.47212	208	0.33	1.52	-7.55	-4.82
		209	6.133779	17.76689	22.47212	209	0.34	1.52	-7.55	-4.81
		210	6.117057	17.73311	22.49071	210	0.34	1.54	-7.56	-4.8
		211	6.117057	17.75	22.45353	211	0.35	1.54	-7.55	-4.79
		212	6.100334	17.76689	22.43494	212	0.35	1.55	-7.55	-4.78
		213	6.117057	17.80068	22.43494	213	0.36	1.55	-7.54	-4.78
		214	6.100334	17.83446	22.45353	214	0.36	1.56	-7.54	-4.77
		215	6.117057	17.76689	22.41636	215	0.36	1.56	-7.54	-4.76
		216	6.117057	17.73311	22.39777	216	0.37	1.57	-7.49	-4.75
		217	6.06689	17.76689	22.45353	217	0.37	1.57	-7.5	-4.75
		218	6.050167	17.75	22.45353	218	0.36	1.57	-7.53	-4.75
		219	6.050167	17.76689	22.41636	219	0.37	1.58	-7.52	-4.74
		220	6.083612	17.78378	22.41636	220	0.38	1.6	-7.48	-4.72
		221	6.083612	17.83446	22.47212	221	0.38	1.6	-7.47	-4.72
		222	6.06689	17.83446	22.47212	222	0.38	1.59	-7.46	-4.72
		223	6.050167	17.78378	22.49071	223	0.39	1.61	-7.45	-4.71
		224	6.050167	17.76689	22.49071	224	0.39	1.62	-7.45	-4.7
		225	6.050167	17.71622	22.43494	225	0.4	1.62	-7.46	-4.69
		226	6.083612	17.76689	22.45353	226	0.4	1.63	-7.48	-4.68
		227	6.033445	17.73311	22.47212	227	0.4	1.63	-7.45	-4.67
		228	6.016722	17.76689	22.47212	228	0.41	1.64	-7.43	-4.67

229	5.983278	17.78378	22.47212	229	0.41	1.64	-7.41	-4.66
230	6.016722	17.76689	22.45353	230	0.42	1.65	-7.42	-4.65
231	6.050167	17.81757	22.45353	231	0.41	1.65	-7.44	-4.65
232	6.083612	17.80068	22.41636	232	0.42	1.66	-7.42	-4.65
233	6.050167	17.76689	22.43494	233	0.43	1.67	-7.42	-4.63
234	6.033445	17.75	22.45353	234	0.43	1.68	-7.43	-4.63
235	6	17.73311	22.50929	235	0.43	1.67	-7.41	-4.63
236	6.016722	17.73311	22.49071	236	0.44	1.68	-7.4	-4.62
237	5.983278	17.68243	22.45353	237	0.44	1.68	-7.4	-4.61
238	5.949833	17.75	22.43494	238	0.44	1.69	-7.39	-4.61
239	5.93311	17.75	22.45353	239	0.44	1.69	-7.37	-4.6
240	5.916388	17.80068	22.49071	240	0.44	1.7	-7.37	-4.59
241	5.93311	17.76689	22.47212	241	0.44	1.7	-7.37	-4.59
242	5.93311	17.76689	22.50929	242	0.44	1.7	-7.37	-4.58
243	5.916388	17.76689	22.45353	243	0.46	1.71	-7.33	-4.57
244	5.966555	17.76689	22.47212	244	0.46	1.72	-7.3	-4.57
245	5.966555	17.76689	22.47212	245	0.46	1.72	-7.3	-4.56
246	5.966555	17.75	22.47212	246	0.46	1.73	-7.3	-4.56
247	5.93311	17.75	22.49071	247	0.47	1.74	-7.31	-4.55
248	5.949833	17.80068	22.50929	248	0.47	1.74	-7.32	-4.54
249	5.93311	17.83446	22.54647	249	0.47	1.74	-7.32	-4.54
250	5.966555	17.80068	22.54647	250	0.47	1.75	-7.31	-4.54
251	5.966555	17.71622	22.49071	251	0.48	1.75	-7.3	-4.53
252	5.949833	17.71622	22.47212	252	0.48	1.76	-7.3	-4.52
253	5.983278	17.73311	22.47212	253	0.48	1.76	-7.3	-4.52
254	5.93311	17.76689	22.50929	254	0.48	1.76	-7.33	-4.52
255	5.866221	17.73311	22.56506	255	0.48	1.77	-7.35	-4.51
256	5.916388	17.75	22.54647	256	0.48	1.77	-7.35	-4.51
257	5.93311	17.76689	22.52788	257	0.49	1.78	-7.31	-4.49
258	5.882943	17.76689	22.47212	258	0.5	1.79	-7.26	-4.49
259	5.832776	17.76689	22.45353	259	0.49	1.78	-7.24	-4.49
260	5.899666	17.78378	22.47212	260	0.5	1.79	-7.23	-4.48
261	5.899666	17.76689	22.47212	261	0.5	1.8	-7.25	-4.48
262	5.899666	17.80068	22.52788	262	0.5	1.8	-7.27	-4.48
263	5.832776	17.75	22.50929	263	0.51	1.8	-7.26	-4.47
264	5.832776	17.73311	22.47212	264	0.5	1.8	-7.25	-4.47
265	5.832776	17.76689	22.49071	265	0.5	1.8	-7.24	-4.46
266	5.849498	17.76689	22.50929	266	0.51	1.81	-7.23	-4.45
267	5.866221	17.73311	22.49071	267	0.52	1.82	-7.21	-4.45
268	5.899666	17.75	22.45353	268	0.52	1.82	-7.21	-4.45
269	5.849498	17.69932	22.49071	269	0.52	1.83	-7.21	-4.44
270	5.849498	17.68243	22.54647	270	0.53	1.83	-7.22	-4.44
271	5.849498	17.71622	22.50929	271	0.53	1.83	-7.22	-4.43
272	5.799331	17.73311	22.50929	272	0.53	1.83	-7.21	-4.43
273	5.765886	17.76689	22.50929	273	0.54	1.84	-7.2	-4.41

274	5.782609	17.78378	22.50929	274	0.54	1.85	-7.18	-4.41
275	5.749164	17.76689	22.49071	275	0.54	1.85	-7.19	-4.41
276	5.732441	17.73311	22.52788	276	0.54	1.85	-7.19	-4.41
277	5.816054	17.73311	22.50929	277	0.55	1.87	-7.18	-4.4
278	5.799331	17.76689	22.52788	278	0.55	1.87	-7.17	-4.39
279	5.799331	17.76689	22.54647	279	0.56	1.87	-7.16	-4.39
280	5.782609	17.75	22.54647	280	0.56	1.88	-7.14	-4.37
281	5.816054	17.80068	22.52788	281	0.56	1.88	-7.15	-4.37
282	5.799331	17.76689	22.54647	282	0.56	1.89	-7.16	-4.37
283	5.782609	17.80068	22.50929	283	0.56	1.89	-7.18	-4.37
284	5.715719	17.73311	22.47212	284	0.56	1.89	-7.19	-4.36
285	5.765886	17.76689	22.47212	285	0.57	1.9	-7.18	-4.36
286	5.715719	17.78378	22.52788	286	0.57	1.9	-7.18	-4.36
287	5.732441	17.71622	22.58364	287	0.57	1.9	-7.14	-4.36
288	5.732441	17.78378	22.56506	288	0.58	1.91	-7.1	-4.35
289	5.765886	17.71622	22.49071	289	0.58	1.91	-7.1	-4.35
290	5.749164	17.76689	22.50929	290	0.58	1.92	-7.09	-4.34
291	5.749164	17.76689	22.56506	291	0.58	1.92	-7.1	-4.33
292	5.732441	17.78378	22.56506	292	0.58	1.92	-7.1	-4.33
293	5.698997	17.75	22.54647	293	0.58	1.92	-7.09	-4.33
294	5.632107	17.76689	22.56506	294	0.58	1.92	-7.07	-4.33
295	5.632107	17.76689	22.62082	295	0.59	1.93	-7.08	-4.32
296	5.715719	17.81757	22.58364	296	0.59	1.93	-7.09	-4.31
297	5.732441	17.83446	22.58364	297	0.59	1.93	-7.07	-4.31
298	5.698997	17.80068	22.56506	298	0.59	1.94	-7.06	-4.3
299	5.648829	17.73311	22.54647	299	0.6	1.94	-7.06	-4.3
300	5.682274	17.75	22.52788	300	0.6	1.95	-7.06	-4.29
301	5.648829	17.76689	22.50929	301	0.6	1.95	-7.03	-4.29
302	5.632107	17.73311	22.50929	302	0.6	1.95	-7.02	-4.29
303	5.632107	17.69932	22.49071	303	0.6	1.96	-7.03	-4.28
304	5.682274	17.76689	22.49071	304	0.6	1.95	-7.03	-4.28
305	5.665552	17.75	22.50929	305	0.6	1.96	-7.03	-4.28
306	5.615385	17.73311	22.54647	306	0.61	1.96	-7.03	-4.27
307	5.615385	17.71622	22.54647	307	0.61	1.97	-7.05	-4.26
308	5.58194	17.73311	22.54647	308	0.61	1.97	-7.06	-4.26
309	5.632107	17.73311	22.54647	309	0.61	1.97	-7.05	-4.26
310	5.665552	17.71622	22.50929	310	0.61	1.97	-7.04	-4.26
311	5.648829	17.71622	22.52788	311	0.61	1.97	-7.03	-4.26
312	5.648829	17.73311	22.54647	312	0.61	1.97	-7.02	-4.26
313	5.648829	17.68243	22.54647	313	0.61	1.97	-7.03	-4.25
314	5.615385	17.76689	22.52788	314	0.62	1.98	-7	-4.24
315	5.632107	17.81757	22.52788	315	0.62	1.99	-6.98	-4.24
316	5.715719	17.81757	22.54647	316	0.62	1.99	-6.97	-4.23
317	5.698997	17.76689	22.52788	317	0.62	1.99	-6.95	-4.23
318	5.615385	17.75	22.54647	318	0.62	1.99	-6.96	-4.23

319	5.58194	17.71622	22.52788	319	0.63	2	-6.96	-4.22
320	5.648829	17.73311	22.50929	320	0.63	2	-6.96	-4.22
321	5.665552	17.80068	22.52788	321	0.63	2.01	-6.97	-4.21
322	5.648829	17.80068	22.52788	322	0.64	2.01	-6.95	-4.21
323	5.615385	17.73311	22.50929	323	0.65	2.02	-6.93	-4.2
324	5.598662	17.71622	22.49071	324	0.64	2.02	-6.95	-4.19
325	5.58194	17.69932	22.52788	325	0.65	2.02	-6.96	-4.19
326	5.632107	17.75	22.54647	326	0.64	2.02	-6.97	-4.19
327	5.665552	17.83446	22.52788	327	0.64	2.02	-6.97	-4.19
328	5.632107	17.75	22.56506	328	0.65	2.03	-6.96	-4.19
329	5.615385	17.71622	22.52788	329	0.65	2.03	-6.96	-4.19
330	5.565217	17.76689	22.52788	330	0.66	2.04	-6.93	-4.18
331	5.58194	17.78378	22.54647	331	0.66	2.04	-6.92	-4.17
332	5.615385	17.73311	22.56506	332	0.65	2.04	-6.94	-4.17
333	5.615385	17.73311	22.52788	333	0.66	2.05	-6.95	-4.17
334	5.632107	17.73311	22.54647	334	0.67	2.06	-6.95	-4.16
335	5.615385	17.73311	22.58364	335	0.66	2.06	-6.93	-4.16
336	5.531773	17.73311	22.58364	336	0.68	2.07	-6.94	-4.15
337	5.548495	17.75	22.50929	337	0.68	2.07	-6.91	-4.14
338	5.615385	17.73311	22.50929	338	0.67	2.07	-6.89	-4.14
339	5.565217	17.71622	22.52788	339	0.68	2.07	-6.88	-4.14
340	5.531773	17.73311	22.52788	340	0.68	2.07	-6.87	-4.14
341	5.565217	17.73311	22.52788	341	0.68	2.07	-6.87	-4.14
342	5.58194	17.69932	22.52788	342	0.69	2.08	-6.86	-4.13
343	5.615385	17.69932	22.50929	343	0.69	2.09	-6.86	-4.13
344	5.615385	17.68243	22.50929	344	0.68	2.08	-6.88	-4.13
345	5.615385	17.71622	22.52788	345	0.69	2.09	-6.88	-4.12
346	5.565217	17.78378	22.58364	346	0.69	2.1	-6.87	-4.12
347	5.498328	17.80068	22.58364	347	0.69	2.1	-6.85	-4.11
348	5.615385	17.75	22.56506	348	0.7	2.1	-6.83	-4.11
349	5.632107	17.71622	22.54647	349	0.7	2.11	-6.83	-4.1
350	5.615385	17.68243	22.60223	350	0.69	2.1	-6.83	-4.1
351	5.648829	17.66554	22.60223	351	0.69	2.1	-6.83	-4.1
352	5.58194	17.73311	22.60223	352	0.7	2.11	-6.83	-4.1
353	5.58194	17.71622	22.56506	353	0.71	2.11	-6.81	-4.09
354	5.51505	17.73311	22.56506	354	0.71	2.12	-6.81	-4.08
355	5.548495	17.76689	22.63941	355	0.71	2.12	-6.81	-4.08
356	5.498328	17.78378	22.60223	356	0.71	2.12	-6.82	-4.08
357	5.464883	17.75	22.56506	357	0.71	2.12	-6.81	-4.08
358	5.531773	17.78378	22.62082	358	0.7	2.12	-6.82	-4.08
359	5.548495	17.80068	22.56506	359	0.71	2.13	-6.81	-4.07
360	5.598662	17.75	22.52788	360	0.71	2.12	-6.82	-4.07
361	5.565217	17.69932	22.56506	361	0.71	2.12	-6.81	-4.07
362	5.58194	17.69932	22.52788	362	0.71	2.13	-6.8	-4.06
363	5.598662	17.69932	22.54647	363	0.72	2.13	-6.78	-4.06

364	5.548495	17.71622	22.56506	364	0.71	2.13	-6.81	-4.07
365	5.51505	17.69932	22.50929	365	0.72	2.14	-6.79	-4.06
366	5.51505	17.75	22.52788	366	0.72	2.14	-6.78	-4.06
367	5.481605	17.73311	22.50929	367	0.72	2.14	-6.77	-4.06
368	5.51505	17.71622	22.49071	368	0.72	2.14	-6.77	-4.06
369	5.548495	17.73311	22.52788	369	0.72	2.14	-6.76	-4.05
370	5.531773	17.76689	22.56506	370	0.72	2.15	-6.78	-4.05
371	5.531773	17.81757	22.54647	371	0.72	2.15	-6.78	-4.04
372	5.548495	17.76689	22.56506	372	0.72	2.15	-6.74	-4.04
373	5.548495	17.73311	22.63941	373	0.73	2.15	-6.73	-4.04
374	5.565217	17.76689	22.60223	374	0.72	2.14	-6.74	-4.04
375	5.548495	17.76689	22.56506	375	0.72	2.15	-6.76	-4.04
376	5.498328	17.76689	22.62082	376	0.72	2.15	-6.78	-4.03
377	5.464883	17.75	22.58364	377	0.72	2.16	-6.77	-4.03
378	5.464883	17.78378	22.52788	378	0.73	2.16	-6.76	-4.03
379	5.498328	17.83446	22.54647	379	0.72	2.16	-6.75	-4.03
380	5.51505	17.81757	22.58364	380	0.73	2.17	-6.74	-4.02
381	5.51505	17.80068	22.58364	381	0.73	2.17	-6.71	-4.01
382	5.531773	17.81757	22.60223	382	0.74	2.17	-6.72	-4.01
383	5.481605	17.78378	22.54647	383	0.74	2.17	-6.73	-4.01
384	5.531773	17.76689	22.49071	384	0.74	2.18	-6.72	-4
385	5.548495	17.76689	22.47212	385	0.74	2.18	-6.74	-4
386	5.565217	17.75	22.52788	386	0.75	2.18	-6.72	-4
387	5.548495	17.73311	22.56506	387	0.75	2.19	-6.72	-4
388	5.531773	17.68243	22.56506	388	0.75	2.2	-6.71	-3.99
389	5.531773	17.71622	22.58364	389	0.75	2.2	-6.71	-3.99
390	5.51505	17.78378	22.60223	390	0.76	2.2	-6.7	-3.98
391	5.481605	17.76689	22.60223	391	0.76	2.21	-6.69	-3.98
392	5.481605	17.76689	22.58364	392	0.76	2.21	-6.68	-3.98
393	5.498328	17.78378	22.60223	393	0.76	2.21	-6.69	-3.97
394	5.498328	17.75	22.62082	394	0.77	2.21	-6.67	-3.97
395	5.481605	17.78378	22.58364	395	0.76	2.2	-6.68	-3.98
396	5.448161	17.80068	22.58364	396	0.76	2.21	-6.67	-3.98
397	5.448161	17.75	22.58364	397	0.76	2.21	-6.7	-3.97
398	5.481605	17.76689	22.58364	398	0.76	2.21	-6.69	-3.97
399	5.548495	17.76689	22.54647	399	0.76	2.21	-6.7	-3.97
400	5.531773	17.76689	22.58364	400	0.76	2.21	-6.7	-3.97
401	5.481605	17.73311	22.62082	401	0.76	2.21	-6.69	-3.97
402	5.464883	17.75	22.58364	402	0.76	2.21	-6.69	-3.97

Deli_exp_17

Experiment type: Deliquescence experiment. The regolith type is JSC Mars-1 in this experiment, with a thickness of 2 cm. The initial weight was 328.85 g. 5.33 wt% of calcium perchlorate was added increasing the mass to 346.38 g. The humidity buffer was KCl which has a RH of 88.61% at 0 degrees Celsius. Chiller was set to -20°C. Temperature around the sample was controlled by the chiller.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= humidity buffer 3= atmosphere 4= sample

Mass		RH	T							
Min.	Mass	Min.	Ch02	Ch03	Ch04	Min.	Ch01	Ch02	Ch03	Ch04
0	346.5	0	14.33445	5.155405	6.468401	0	4.17	-5.32	-7.38	-9.14
2	345.33	1	13.8495	7.064189	8.122677	1	-4.52	-9.1	-8.4	-8.9
4	345.47	2	13.91639	8.989865	8.791822	2	-6.1	-9.65	-8.69	-9.78
6	345.09	3	14.48495	9.969595	8.903346	3	-2.75	-8.53	-8.06	-9.89
8	345.02	4	14.93645	9.226351	9.01487	4	-2.1	-8.5	-7.45	-9.43
10	345.08	5	15.45485	6.371622	9.256506	5	-1.86	-8.11	-6.87	-8.78
12	345.16	6	16.32441	2.452703	9.944238	6	-1.44	-7.36	-6.42	-8.24
14	345.19	7	17.24415	0.368243	11.05948	7	-0.99	-6.85	-6.35	-7.82
16	345.26	8	17.94649	1.719595	12.32342	8	-1.19	-6.42	-6.51	-7.53
18	345.2	9	18.74916	1.212838	13.56877	9	-1.24	-6.1	-6.73	-7.36
20	345.33	10	19.6689	0.003378	14.86989	10	-0.75	-5.84	-7.04	-7.42
22	345.25	11	20.25418	0.628378	15.92937	11	-0.67	-5.46	-7.33	-7.46
24	345.25	12	20.43813	0.611486	16.6171	12	-0.93	-5.08	-7.66	-7.46
26	345.26	13	20.58863	0.324324	17.02602	13	-0.9	-4.81	-7.84	-7.39
28	345.37	14	20.68896	0.030405	17.32342	14	-0.85	-4.56	-7.98	-7.34
30	345.34	15	20.7893	0.334459	17.60223	15	-0.82	-4.35	-8.1	-7.31
32	345.37	16	20.82274	0.554054	17.84387	16	-0.78	-4.15	-8.17	-7.27
34	345.38	17	20.97324	0.807432	18.01115	17	-0.74	-3.96	-8.27	-7.22
36	345.4	18	21.0903	1.14527	18.10409	18	-0.72	-3.79	-8.43	-7.19
38	345.41	19	21.17391	1.398649	18.15985	19	-0.68	-3.62	-8.5	-7.15
40	345.44	20	21.30769	1.652027	18.19703	20	-0.64	-3.45	-8.54	-7.11
42	345.45	21	21.3913	1.905405	18.27138	21	-0.6	-3.29	-8.61	-7.07
44	345.48	22	21.47492	2.074324	18.30855	22	-0.56	-3.14	-8.66	-7.03
46	345.47	23	21.6087	2.378378	18.25279	23	-0.5	-2.98	-8.67	-6.99
48	345.48	24	21.69231	2.699324	18.28996	24	-0.45	-2.83	-8.7	-6.95
50	345.48	25	21.6087	3.003378	18.32714	25	-0.4	-2.69	-8.72	-6.91
52	345.5	26	21.64214	3.476351	18.30855	26	-0.36	-2.55	-8.74	-6.87
54	345.47	27	21.69231	4.050676	18.34572	27	-0.31	-2.43	-8.75	-6.82

56	345.43	28	21.67559	4.692568	18.42007	28	-0.26	-2.29	-8.86	-6.76
58	345.45	29	21.64214	5.334459	18.51301	29	-0.18	-2.17	-8.9	-6.72
60	345.47	30	21.6087	5.722973	18.56877	30	-0.13	-2.05	-8.87	-6.69
62	345.49	31	21.55853	6.027027	18.62454	31	-0.07	-1.93	-8.87	-6.65
64	345.46	32	21.50836	6.466216	18.73606	32	-0.03	-1.82	-8.87	-6.62
66	345.46	33	21.44147	6.820946	18.79182	33	0	-1.72	-8.87	-6.6
68	345.51	34	21.29097	7.125	18.829	34	0.01	-1.62	-8.87	-6.57
70	345.53	35	21.04013	7.513514	18.88476	35	0.02	-1.53	-8.87	-6.54
72	345.48	36	20.75585	7.902027	18.9777	36	0.02	-1.44	-8.87	-6.51
74	345.5	37	20.43813	8.307432	19.08922	37	0.03	-1.36	-8.84	-6.48
76	345.47	38	20.20401	8.64527	19.14498	38	0.05	-1.27	-8.81	-6.45
78	345.5	39	20.00334	9.016892	19.18216	39	0.05	-1.2	-8.78	-6.42
80	345.5	40	19.71906	9.422297	19.34944	40	0.06	-1.12	-8.74	-6.4
82	345.51	41	19.38462	9.692568	19.47955	41	0.07	-1.05	-8.67	-6.37
84	345.52	42	19.05017	9.861486	19.59108	42	0.07	-0.99	-8.61	-6.34
86	345.52	43	18.74916	10.16554	19.64684	43	0.08	-0.94	-8.56	-6.32
88	345.53	44	18.1806	10.48649	19.7026	44	0.08	-0.89	-8.51	-6.3
90	345.54	45	17.29431	10.89189	19.73978	45	-0.79	-0.67	-8.4	-6.16
92	345.53	46	16.45819	11.36486	19.75836	46	-1.31	-0.55	-8.27	-6
94	345.54	47	15.7893	11.85473	19.75836	47	-1.05	-0.5	-8.11	-5.92
96	345.55	48	15.4214	12.46284	19.81413	48	-0.65	-0.49	-7.99	-5.9
98	345.55	49	15.40468	12.93581	19.88848	49	-0.24	-0.5	-7.89	-5.95
100	345.55	50	15.32107	13.1723	20.01859	50	-0.19	-0.44	-7.79	-5.95
102	345.54	51	15.07023	13.375	20.22305	51	-0.21	-0.38	-7.73	-5.93
104	345.52	52	14.70234	13.5777	20.37175	52	-0.24	-0.33	-7.65	-5.9
106	345.59	53	14.33445	13.7973	20.4461	53	-0.3	-0.28	-7.58	-5.87
108	345.63	54	13.93311	13.98311	20.57621	54	-0.31	-0.23	-7.48	-5.84
110	345.54	55	13.39799	14.16892	20.70632	55	-0.3	-0.19	-7.39	-5.81
112	345.54	56	12.86288	14.32095	20.78067	56	-0.3	-0.14	-7.3	-5.77
114	345.54	57	12.32776	14.38851	20.85502	57	-0.33	-0.11	-7.21	-5.75
116	345.49	58	11.7592	14.55743	20.92937	58	-0.33	-0.08	-7.1	-5.72
118	345.56	59	11.22408	14.74324	21.07807	59	-0.34	-0.04	-7.01	-5.7
120	345.6	60	10.6388	14.92905	21.13383	60	-0.31	-0.01	-6.9	-5.67
122	345.63	61	10.02007	15.13176	21.18959	61	-0.28	0.02	-6.79	-5.65
124	345.58	62	9.401338	15.19932	21.28253	62	-0.27	0.06	-6.69	-5.62
126	345.53	63	8.749164	15.26689	21.35688	63	-0.27	0.09	-6.6	-5.59
128	345.54	64	8.046823	15.41892	21.41264	64	-0.29	0.13	-6.51	-5.56
130	345.51	65	7.26087	15.52027	21.44981	65	-0.26	0.15	-6.44	-5.54
132	345.53	66	6.491639	15.63851	21.50558	66	-0.25	0.19	-6.37	-5.52
134	345.5	67	5.488294	15.79054	21.57993	67	-0.26	0.21	-6.31	-5.49
136	345.54	68	4.200669	15.90878	21.63569	68	-0.23	0.24	-6.28	-5.47
138	345.55	69	3.147157	16.01014	21.71004	69	-0.24	0.27	-6.25	-5.45
140	345.54	70	2.377926	16.16216	21.78439	70	-0.23	0.3	-6.21	-5.43
142	345.55	71	1.876254	16.31419	21.82156	71	-0.21	0.33	-6.16	-5.4
144	345.77	72	1.541806	16.46622	21.85874	72	-0.21	0.35	-6.11	-5.37

146	345.54	73	1.22408	16.60135	21.89591	73	-0.22	0.37	-6.09	-5.36
148	345.54	74	1.023411	16.58446	21.97026	74	-0.18	0.41	-6.08	-5.34
150	345.47	75	0.856187	16.63514	21.98885	75	-0.17	0.44	-6.04	-5.31
152	345.53	76	0.672241	16.63514	22.02602	76	-0.15	0.45	-6	-5.29
154	345.66	77	0.438127	16.63514	22.0632	77	-0.14	0.48	-5.89	-5.26
156	345.51	78	0.254181	16.71959	22.10037	78	-0.16	0.5	-5.82	-5.24
158	345.51	79	0.137124	16.73649	22.13755	79	-0.13	0.53	-5.76	-5.22
160	345.54	80	0.013378	16.80405	22.11896	80	-0.14	0.56	-5.67	-5.19
162	345.53	81	0.147157	16.85473	22.13755	81	-0.12	0.58	-5.58	-5.17
164	345.47	82	0.297659	16.82095	22.15613	82	-0.09	0.6	-5.51	-5.15
166	345.5	83	0.364548	16.87162	22.19331	83	-0.09	0.62	-5.44	-5.12
168	345.43	84	0.481605	16.95608	22.23048	84	-0.08	0.65	-5.38	-5.1
170	345.41	85	0.58194	16.95608	22.24907	85	-0.08	0.67	-5.32	-5.09
172	345.39	86	0.648829	16.93919	22.28625	86	-0.07	0.69	-5.26	-5.07
174	345.42	87	0.732441	16.97297	22.28625	87	-0.07	0.72	-5.19	-5.05
176	345.45	88	0.816054	16.95608	22.26766	88	-0.07	0.73	-5.13	-5.03
178	345.43	89	0.849498	16.95608	22.26766	89	-0.04	0.75	-5.09	-5.01
180	345.49	90	0.949833	17.05743	22.34201	90	-0.03	0.77	-5.06	-4.99
182	345.49	91	1.06689	17.10811	22.34201	91	-0.02	0.79	-5.01	-4.96
184	345.48	92	1.150502	17.10811	22.32342	92	-0.02	0.82	-4.96	-4.94
186	345.52	93	1.167224	17.125	22.26766	93	0	0.84	-4.92	-4.92
188	345.61	94	1.234114	17.10811	22.36059	94	-0.01	0.86	-4.89	-4.9
190	345.59	95	1.367893	17.10811	22.41636	95	0	0.88	-4.85	-4.88
192	345.53	96	1.451505	17.09122	22.43494	96	0.04	0.9	-4.81	-4.86
194	345.47	97	1.468227	17.14189	22.45353	97	0.01	0.91	-4.78	-4.84
196	345.43	98	1.518395	17.15878	22.49071	98	0.03	0.94	-4.74	-4.82
198	345.47	99	1.585284	17.19257	22.43494	99	0.03	0.96	-4.71	-4.8
200	345.47	100	1.652174	17.22635	22.49071	100	0.04	0.97	-4.68	-4.79
202	345.43	101	1.719064	17.20946	22.52788	101	0.04	0.99	-4.64	-4.77
204	345.43	102	1.802676	17.22635	22.52788	102	0.05	1.01	-4.59	-4.75
206	345.49	103	1.869565	17.20946	22.56506	103	0.07	1.03	-4.56	-4.73
208	345.5	104	1.869565	17.26014	22.58364	104	0.09	1.04	-4.52	-4.7
210	345.52	105	1.83612	17.31081	22.54647	105	0.07	1.06	-4.47	-4.69
212	345.47	106	1.886288	17.26014	22.54647	106	0.1	1.08	-4.44	-4.66
214	345.46	107	1.986622	17.26014	22.52788	107	0.1	1.1	-4.4	-4.64
216	345.39	108	1.936455	17.24324	22.58364	108	0.1	1.12	-4.36	-4.62
218	345.49	109	1.953177	17.22635	22.62082	109	0.1	1.14	-4.32	-4.6
220	345.41	110	2.036789	17.26014	22.60223	110	0.14	1.16	-4.29	-4.57
222	345.39	111	2.120401	17.34459	22.58364	111	0.13	1.18	-4.29	-4.56
224	345.45	112	2.153846	17.36149	22.58364	112	0.13	1.19	-4.26	-4.54
226	345.48	113	2.204013	17.37838	22.58364	113	0.14	1.21	-4.24	-4.51
228	345.39	114	2.270903	17.39527	22.58364	114	0.13	1.23	-4.22	-4.5
230	345.46	115	2.287625	17.36149	22.62082	115	0.13	1.24	-4.19	-4.49
232	345.52	116	2.32107	17.34459	22.67658	116	0.17	1.25	-4.15	-4.47
234	345.48	117	2.371237	17.29392	22.71375	117	0.2	1.27	-4.13	-4.45

236	345.44	118	2.404682	17.36149	22.67658	118	0.18	1.29	-4.1	-4.44
238	345.83	119	2.438127	17.36149	22.67658	119	0.18	1.3	-4.07	-4.42
240	345.79	120	2.471572	17.34459	22.67658	120	0.2	1.32	-4.04	-4.39
242	345.98	121	2.521739	17.36149	22.71375	121	0.21	1.33	-4.02	-4.38
244	345.89	122	2.488294	17.42905	22.67658	122	0.21	1.35	-4	-4.36
246	345.85	123	2.454849	17.42905	22.67658	123	0.23	1.37	-3.97	-4.34
248	345.87	124	2.555184	17.42905	22.69517	124	0.23	1.39	-3.94	-4.32
250	345.81	125	2.571906	17.36149	22.73234	125	0.26	1.41	-3.91	-4.3
252	345.76	126	2.505017	17.39527	22.73234	126	0.26	1.42	-3.9	-4.29
254	345.96	127	2.471572	17.39527	22.69517	127	0.26	1.43	-3.87	-4.26
256	345.89	128	2.488294	17.34459	22.73234	128	0.27	1.45	-3.86	-4.25
258	345.71	129	2.505017	17.36149	22.75093	129	0.26	1.46	-3.84	-4.23
260	345.87	130	2.588629	17.42905	22.75093	130	0.28	1.48	-3.82	-4.22
262	345.92	131	2.605351	17.42905	22.71375	131	0.28	1.49	-3.81	-4.2
264	345.91	132	2.588629	17.37838	22.7881	132	0.27	1.5	-3.79	-4.18
266	345.79	133	2.571906	17.34459	22.82528	133	0.25	1.52	-3.77	-4.17
268	345.84	134	2.571906	17.34459	22.80669	134	0.29	1.54	-3.75	-4.14
270	346.05	135	2.571906	17.37838	22.82528	135	0.29	1.55	-3.73	-4.13
272	345.91	136	2.605351	17.42905	22.80669	136	0.31	1.55	-3.73	-4.12
274	345.86	137	2.672241	17.39527	22.82528	137	0.36	1.57	-3.71	-4.09
276	346.04	138	2.688963	17.39527	22.84387	138	0.33	1.58	-3.69	-4.08
278	345.75	139	2.688963	17.44595	22.86245	139	0.35	1.59	-3.67	-4.07
280	345.8	140	2.705686	17.46284	22.86245	140	0.36	1.6	-3.65	-4.05
282	345.9	141	2.722408	17.39527	22.86245	141	0.34	1.62	-3.63	-4.03
284	345.96	142	2.722408	17.36149	22.84387	142	0.35	1.64	-3.61	-4.01
286	345.75	143	2.705686	17.34459	22.86245	143	0.36	1.65	-3.59	-4
288	345.89	144	2.722408	17.37838	22.84387	144	0.39	1.66	-3.57	-3.98
290	345.79	145	2.73913	17.37838	22.82528	145	0.39	1.67	-3.55	-3.97
292	345.81	146	2.722408	17.37838	22.86245	146	0.38	1.68	-3.54	-3.95
294	345.8	147	2.755853	17.36149	22.88104	147	0.39	1.69	-3.52	-3.94
296	345.66	148	2.789298	17.39527	22.88104	148	0.38	1.71	-3.5	-3.92
298	345.56	149	2.755853	17.39527	22.91822	149	0.39	1.71	-3.49	-3.9
300	345.68	150	2.688963	17.41216	22.91822	150	0.39	1.72	-3.47	-3.89
302	345.78	151	2.722408	17.42905	22.9368	151	0.42	1.74	-3.45	-3.87
304	345.6	152	2.705686	17.42905	22.99257	152	0.42	1.76	-3.44	-3.86
306	345.74	153	2.705686	17.41216	22.95539	153	0.41	1.76	-3.44	-3.84
308	345.7	154	2.672241	17.42905	22.95539	154	0.41	1.77	-3.43	-3.83
310	345.63	155	2.672241	17.44595	22.91822	155	0.44	1.78	-3.41	-3.82
312	345.7	156	2.672241	17.44595	22.88104	156	0.42	1.79	-3.4	-3.81
314	345.54	157	2.672241	17.41216	22.89963	157	0.43	1.8	-3.39	-3.79
316	345.65	158	2.688963	17.42905	22.9368	158	0.43	1.82	-3.37	-3.77
318	345.58	159	2.655518	17.46284	22.9368	159	0.42	1.83	-3.36	-3.75
320	345.59	160	2.655518	17.37838	22.89963	160	0.44	1.84	-3.35	-3.73
322	345.55	161	2.705686	17.37838	22.97398	161	0.44	1.85	-3.34	-3.73
324	345.54	162	2.688963	17.41216	22.99257	162	0.47	1.86	-3.32	-3.71

326	345.66	163	2.605351	17.37838	22.99257	163	0.47	1.87	-3.3	-3.7
328	345.53	164	2.605351	17.37838	22.99257	164	0.47	1.88	-3.3	-3.69
330	345.64	165	2.655518	17.41216	22.99257	165	0.49	1.9	-3.29	-3.67
332	345.63	166	2.638796	17.42905	22.95539	166	0.5	1.9	-3.28	-3.65
334	345.59	167	2.622074	17.39527	23.01115	167	0.5	1.91	-3.27	-3.64
336	345.65	168	2.588629	17.36149	23.01115	168	0.48	1.91	-3.27	-3.65
338	345.69	169	2.638796	17.37838	23.06691	169	0.48	1.93	-3.25	-3.63
340	345.59	170	2.688963	17.41216	23.02974	170	0.51	1.95	-3.23	-3.6
342	345.64	171	2.672241	17.41216	23.02974	171	0.49	1.96	-3.22	-3.6
344	345.65	172	2.622074	17.42905	22.99257	172	0.49	1.96	-3.22	-3.59
346	345.67	173	2.588629	17.39527	22.99257	173	0.54	1.98	-3.21	-3.57
348	345.6	174	2.588629	17.39527	22.99257	174	0.57	1.98	-3.19	-3.56
350	345.83	175	2.638796	17.41216	22.99257	175	0.55	1.99	-3.19	-3.55
352	345.7	176	2.655518	17.41216	23.01115	176	0.58	1.99	-3.18	-3.53
354	345.75	177	2.638796	17.41216	23.02974	177	0.58	2.01	-3.17	-3.52
356	345.76	178	2.605351	17.37838	23.04833	178	0.59	2.02	-3.15	-3.5
358	345.87	179	2.605351	17.36149	23.04833	179	0.59	2.02	-3.15	-3.5
360	345.77	180	2.605351	17.36149	23.02974	180	0.57	2.03	-3.14	-3.48
362	345.71	181	2.622074	17.36149	23.01115	181	0.61	2.04	-3.13	-3.47
364	345.77	182	2.571906	17.36149	22.99257	182	0.62	2.05	-3.12	-3.46
366	345.85	183	2.605351	17.34459	23.02974	183	0.62	2.06	-3.1	-3.44
368	345.82	184	2.538462	17.37838	23.02974	184	0.65	2.07	-3.09	-3.42
370	345.81	185	2.521739	17.37838	23.04833	185	0.63	2.08	-3.09	-3.42
372	345.75	186	2.571906	17.37838	22.99257	186	0.63	2.09	-3.07	-3.4
374	345.69	187	2.555184	17.44595	23.01115	187	0.62	2.1	-3.06	-3.38
376	345.71	188	2.521739	17.37838	23.04833	188	0.66	2.1	-3.06	-3.38
378	345.72	189	2.488294	17.36149	23.0855	189	0.63	2.11	-3.06	-3.37
380	345.63	190	2.505017	17.37838	23.06691	190	0.63	2.12	-3.06	-3.36
		191	2.488294	17.37838	23.10409	191	0.65	2.12	-3.05	-3.35
		192	2.505017	17.34459	23.06691	192	0.63	2.13	-3.03	-3.33
		193	2.538462	17.37838	23.01115	193	0.65	2.15	-3.02	-3.32
		194	2.538462	17.39527	23.02974	194	0.67	2.15	-3.02	-3.31
		195	2.505017	17.36149	23.06691	195	0.66	2.16	-3.01	-3.3
		196	2.454849	17.37838	23.04833	196	0.68	2.17	-3	-3.29
		197	2.454849	17.39527	23.02974	197	0.69	2.17	-2.99	-3.28
		198	2.488294	17.37838	23.04833	198	0.7	2.17	-2.99	-3.27
		199	2.488294	17.37838	23.06691	199	0.69	2.18	-2.98	-3.26
		200	2.471572	17.41216	23.0855	200	0.69	2.19	-2.97	-3.25
		201	2.454849	17.41216	23.10409	201	0.67	2.2	-2.97	-3.24
		202	2.488294	17.36149	23.12268	202	0.7	2.21	-2.96	-3.23
		203	2.404682	17.36149	23.04833	203	0.71	2.22	-2.94	-3.21
		204	2.337793	17.34459	23.02974	204	0.69	2.23	-2.93	-3.2
		205	2.371237	17.37838	23.06691	205	0.69	2.24	-2.93	-3.2
		206	2.337793	17.39527	23.10409	206	0.71	2.24	-2.93	-3.19
		207	2.337793	17.41216	23.10409	207	0.72	2.26	-2.91	-3.17

208	2.354515	17.44595	23.14126	208	0.72	2.26	-2.91	-3.16
209	2.38796	17.37838	23.12268	209	0.71	2.27	-2.9	-3.15
210	2.38796	17.39527	23.06691	210	0.74	2.27	-2.9	-3.14
211	2.337793	17.41216	23.0855	211	0.75	2.28	-2.9	-3.13
212	2.304348	17.42905	23.0855	212	0.74	2.29	-2.88	-3.11
213	2.254181	17.41216	23.10409	213	0.73	2.29	-2.88	-3.11
214	2.270903	17.42905	23.17844	214	0.78	2.3	-2.87	-3.1
215	2.287625	17.39527	23.15985	215	0.77	2.3	-2.86	-3.09
216	2.32107	17.37838	23.12268	216	0.7	2.3	-2.86	-3.09
217	2.270903	17.39527	23.14126	217	0.73	2.31	-2.86	-3.08
218	2.304348	17.39527	23.14126	218	0.73	2.32	-2.84	-3.07
219	2.270903	17.39527	23.12268	219	0.74	2.34	-2.83	-3.05
220	2.204013	17.39527	23.12268	220	0.74	2.34	-2.83	-3.04
221	2.204013	17.42905	23.12268	221	0.77	2.35	-2.83	-3.03
222	2.220736	17.39527	23.17844	222	0.77	2.35	-2.83	-3.02
223	2.254181	17.37838	23.19703	223	0.75	2.36	-2.81	-3.01
224	2.237458	17.3277	23.12268	224	0.8	2.36	-2.8	-2.99
225	2.237458	17.36149	23.10409	225	0.81	2.37	-2.8	-2.99
226	2.187291	17.37838	23.10409	226	0.8	2.38	-2.78	-2.98
227	2.220736	17.3277	23.12268	227	0.78	2.39	-2.78	-2.97
228	2.153846	17.37838	23.19703	228	0.78	2.39	-2.78	-2.96
229	2.187291	17.37838	23.19703	229	0.82	2.41	-2.76	-2.94
230	2.204013	17.31081	23.17844	230	0.8	2.41	-2.76	-2.93
231	2.187291	17.29392	23.17844	231	0.81	2.42	-2.74	-2.92
232	2.153846	17.3277	23.14126	232	0.79	2.43	-2.74	-2.91
233	2.153846	17.31081	23.12268	233	0.8	2.44	-2.73	-2.9
234	2.103679	17.36149	23.15985	234	0.81	2.43	-2.74	-2.9
235	2.137124	17.37838	23.17844	235	0.83	2.44	-2.73	-2.89
236	2.187291	17.37838	23.19703	236	0.83	2.44	-2.73	-2.88
237	2.120401	17.39527	23.17844	237	0.82	2.45	-2.72	-2.87
238	2.103679	17.36149	23.14126	238	0.83	2.46	-2.71	-2.86
239	2.120401	17.37838	23.12268	239	0.83	2.46	-2.7	-2.85
240	2.086957	17.39527	23.12268	240	0.83	2.48	-2.69	-2.84
241	2.086957	17.39527	23.14126	241	0.82	2.48	-2.69	-2.84
242	2.070234	17.42905	23.17844	242	0.85	2.49	-2.68	-2.83
243	2.053512	17.37838	23.14126	243	0.84	2.49	-2.68	-2.82
244	2.020067	17.31081	23.15985	244	0.86	2.5	-2.68	-2.81
245	2.053512	17.31081	23.14126	245	0.87	2.5	-2.67	-2.8
246	2.003344	17.3277	23.14126	246	0.87	2.51	-2.66	-2.79
247	1.953177	17.34459	23.17844	247	0.88	2.52	-2.66	-2.78
248	1.953177	17.3277	23.14126	248	0.86	2.51	-2.66	-2.78
249	1.953177	17.34459	23.17844	249	0.87	2.53	-2.64	-2.76
250	1.986622	17.3277	23.17844	250	0.87	2.53	-2.64	-2.76
251	1.986622	17.36149	23.17844	251	0.85	2.53	-2.64	-2.76
252	2.003344	17.36149	23.21561	252	0.85	2.54	-2.64	-2.75

253	1.9699	17.34459	23.2342	253	0.87	2.54	-2.64	-2.74
254	1.953177	17.36149	23.25279	254	0.88	2.54	-2.63	-2.74
255	1.936455	17.34459	23.2342	255	0.85	2.56	-2.63	-2.73
256	1.953177	17.31081	23.19703	256	0.88	2.56	-2.63	-2.72
257	1.90301	17.29392	23.17844	257	0.9	2.57	-2.62	-2.71
258	1.90301	17.3277	23.17844	258	0.9	2.58	-2.61	-2.7
259	1.936455	17.31081	23.15985	259	0.9	2.59	-2.6	-2.69
260	1.953177	17.34459	23.14126	260	0.9	2.6	-2.59	-2.68
261	1.9699	17.3277	23.17844	261	0.93	2.6	-2.59	-2.67
262	1.919732	17.3277	23.15985	262	0.91	2.61	-2.58	-2.66
263	1.869565	17.34459	23.15985	263	0.91	2.61	-2.57	-2.66
264	1.919732	17.3277	23.15985	264	0.89	2.61	-2.57	-2.66
265	1.919732	17.26014	23.21561	265	0.91	2.61	-2.57	-2.65
266	1.886288	17.3277	23.2342	266	0.93	2.62	-2.57	-2.64
267	1.852843	17.3277	23.2342	267	0.93	2.63	-2.56	-2.63
268	1.886288	17.34459	23.17844	268	0.95	2.63	-2.56	-2.63
269	1.886288	17.34459	23.15985	269	0.92	2.63	-2.55	-2.62
270	1.852843	17.37838	23.19703	270	0.9	2.64	-2.55	-2.61
271	1.852843	17.39527	23.17844	271	0.92	2.64	-2.54	-2.6
272	1.869565	17.36149	23.21561	272	0.92	2.65	-2.54	-2.6
273	1.869565	17.34459	23.19703	273	0.91	2.66	-2.53	-2.59
274	1.869565	17.34459	23.25279	274	0.95	2.67	-2.52	-2.57
275	1.785953	17.34459	23.2342	275	0.95	2.68	-2.52	-2.56
276	1.819398	17.31081	23.21561	276	0.95	2.69	-2.5	-2.55
277	1.785953	17.27703	23.25279	277	0.95	2.69	-2.5	-2.55
278	1.802676	17.26014	23.2342	278	0.98	2.69	-2.5	-2.54
279	1.819398	17.31081	23.19703	279	0.96	2.7	-2.5	-2.54
280	1.886288	17.27703	23.2342	280	0.95	2.7	-2.5	-2.54
281	1.869565	17.29392	23.19703	281	0.95	2.7	-2.49	-2.53
282	1.819398	17.34459	23.21561	282	0.96	2.7	-2.48	-2.52
283	1.83612	17.3277	23.2342	283	0.94	2.71	-2.48	-2.51
284	1.802676	17.27703	23.21561	284	0.95	2.71	-2.47	-2.5
285	1.769231	17.27703	23.2342	285	0.94	2.71	-2.48	-2.5
286	1.719064	17.24324	23.2342	286	0.96	2.72	-2.48	-2.5
287	1.735786	17.29392	23.21561	287	0.98	2.73	-2.46	-2.47
288	1.735786	17.31081	23.19703	288	0.98	2.73	-2.46	-2.47
289	1.752508	17.29392	23.19703	289	0.97	2.74	-2.46	-2.47
290	1.819398	17.27703	23.2342	290	0.97	2.74	-2.45	-2.46
291	1.83612	17.3277	23.21561	291	1	2.75	-2.44	-2.45
292	1.752508	17.37838	23.17844	292	1.02	2.76	-2.43	-2.45
293	1.785953	17.39527	23.15985	293	1	2.75	-2.43	-2.44
294	1.785953	17.31081	23.21561	294	1	2.76	-2.42	-2.43
295	1.752508	17.31081	23.19703	295	1	2.77	-2.42	-2.43
296	1.83612	17.26014	23.19703	296	1.02	2.77	-2.41	-2.42
297	1.852843	17.26014	23.21561	297	1.01	2.78	-2.41	-2.41

298	1.769231	17.29392	23.2342	298	1.01	2.78	-2.41	-2.41
299	1.752508	17.31081	23.19703	299	1	2.78	-2.41	-2.4
300	1.735786	17.31081	23.19703	300	0.99	2.79	-2.4	-2.4
301	1.702341	17.34459	23.19703	301	1	2.79	-2.41	-2.4
302	1.702341	17.3277	23.27138	302	1.03	2.79	-2.4	-2.39
303	1.719064	17.31081	23.25279	303	1.02	2.8	-2.39	-2.39
304	1.735786	17.3277	23.25279	304	1	2.8	-2.4	-2.39
305	1.752508	17.31081	23.27138	305	1.01	2.8	-2.4	-2.39
306	1.685619	17.31081	23.27138	306	1.01	2.81	-2.4	-2.38
307	1.702341	17.3277	23.25279	307	1.04	2.82	-2.38	-2.36
308	1.719064	17.3277	23.2342	308	1.04	2.83	-2.37	-2.35
309	1.719064	17.36149	23.21561	309	1.05	2.83	-2.36	-2.34
310	1.735786	17.29392	23.2342	310	1.05	2.84	-2.36	-2.34
311	1.719064	17.37838	23.2342	311	1.05	2.85	-2.35	-2.33
312	1.702341	17.34459	23.2342	312	1.06	2.86	-2.34	-2.32
313	1.668896	17.34459	23.21561	313	1.07	2.85	-2.35	-2.32
314	1.668896	17.3277	23.2342	314	1.05	2.86	-2.34	-2.33
315	1.702341	17.3277	23.2342	315	1.06	2.86	-2.34	-2.32
316	1.702341	17.29392	23.2342	316	1.05	2.87	-2.33	-2.3
317	1.652174	17.29392	23.25279	317	1.07	2.86	-2.33	-2.3
318	1.585284	17.3277	23.2342	318	1.08	2.87	-2.33	-2.3
319	1.635452	17.34459	23.2342	319	1.1	2.87	-2.33	-2.29
320	1.668896	17.31081	23.19703	320	1.07	2.87	-2.33	-2.29
321	1.668896	17.34459	23.21561	321	1.09	2.88	-2.33	-2.28
322	1.585284	17.31081	23.21561	322	1.06	2.88	-2.33	-2.28
323	1.501672	17.3277	23.17844	323	1.08	2.9	-2.31	-2.27
324	1.568562	17.24324	23.27138	324	1.08	2.89	-2.32	-2.26
325	1.551839	17.26014	23.25279	325	1.08	2.89	-2.32	-2.26
326	1.568562	17.29392	23.2342	326	1.1	2.89	-2.31	-2.26
327	1.535117	17.29392	23.21561	327	1.11	2.9	-2.3	-2.26
328	1.551839	17.3277	23.25279	328	1.09	2.9	-2.3	-2.25
329	1.568562	17.26014	23.2342	329	1.07	2.91	-2.3	-2.25
330	1.602007	17.22635	23.21561	330	1.1	2.91	-2.3	-2.24
331	1.618729	17.26014	23.17844	331	1.08	2.91	-2.29	-2.23
332	1.618729	17.3277	23.15985	332	1.08	2.91	-2.29	-2.23
333	1.585284	17.26014	23.19703	333	1.09	2.92	-2.29	-2.23
334	1.551839	17.26014	23.2342	334	1.09	2.93	-2.29	-2.22
335	1.568562	17.29392	23.2342	335	1.09	2.93	-2.28	-2.21
336	1.535117	17.22635	23.25279	336	1.07	2.93	-2.27	-2.21
337	1.535117	17.27703	23.21561	337	1.09	2.94	-2.27	-2.2
338	1.585284	17.29392	23.2342	338	1.1	2.94	-2.26	-2.19
339	1.585284	17.27703	23.27138	339	1.09	2.94	-2.26	-2.19
340	1.551839	17.26014	23.19703	340	1.1	2.94	-2.27	-2.19
341	1.535117	17.26014	23.21561	341	1.09	2.94	-2.27	-2.19
342	1.602007	17.27703	23.25279	342	1.11	2.95	-2.26	-2.17

343	1.618729	17.24324	23.27138	343	1.13	2.96	-2.25	-2.17
344	1.585284	17.27703	23.2342	344	1.13	2.96	-2.25	-2.16
345	1.585284	17.26014	23.25279	345	1.1	2.96	-2.25	-2.17
346	1.518395	17.26014	23.21561	346	1.12	2.96	-2.24	-2.16
347	1.518395	17.24324	23.2342	347	1.14	2.96	-2.24	-2.15
348	1.585284	17.20946	23.25279	348	1.1	2.97	-2.24	-2.15
349	1.602007	17.20946	23.25279	349	1.12	2.97	-2.24	-2.15
350	1.568562	17.17568	23.27138	350	1.15	2.97	-2.24	-2.14
351	1.518395	17.22635	23.21561	351	1.12	2.97	-2.24	-2.14
352	1.501672	17.26014	23.27138	352	1.12	2.98	-2.23	-2.14
353	1.501672	17.29392	23.32714	353	1.11	2.98	-2.23	-2.14
354	1.535117	17.20946	23.30855	354	1.13	2.98	-2.23	-2.14
355	1.518395	17.19257	23.27138	355	1.13	2.99	-2.22	-2.13
356	1.535117	17.20946	23.27138	356	1.15	2.99	-2.22	-2.12
357	1.535117	17.17568	23.2342	357	1.15	2.99	-2.22	-2.12
358	1.535117	17.17568	23.2342	358	1.13	2.99	-2.22	-2.12
359	1.48495	17.20946	23.21561	359	1.14	3	-2.21	-2.11
360	1.451505	17.24324	23.2342	360	1.15	3	-2.21	-2.1
361	1.434783	17.20946	23.25279	361	1.14	3.01	-2.2	-2.09
362	1.434783	17.19257	23.2342	362	1.11	3	-2.21	-2.1
363	1.468227	17.17568	23.21561	363	1.16	3.01	-2.2	-2.09
364	1.48495	17.17568	23.27138	364	1.15	3.01	-2.2	-2.08
365	1.434783	17.22635	23.27138	365	1.14	3.02	-2.19	-2.08
366	1.434783	17.24324	23.28996	366	1.15	3.02	-2.19	-2.07
367	1.501672	17.24324	23.2342	367	1.19	3.02	-2.19	-2.07
368	1.501672	17.27703	23.21561	368	1.13	3.02	-2.19	-2.07
369	1.48495	17.29392	23.2342	369	1.13	3.02	-2.19	-2.07
370	1.434783	17.20946	23.21561	370	1.14	3.03	-2.19	-2.07
371	1.468227	17.19257	23.25279	371	1.12	3.04	-2.18	-2.06
372	1.48495	17.22635	23.21561	372	1.15	3.04	-2.18	-2.05
373	1.468227	17.20946	23.21561	373	1.16	3.05	-2.17	-2.05
374	1.41806	17.22635	23.2342	374	1.15	3.05	-2.17	-2.04
375	1.451505	17.24324	23.21561	375	1.14	3.06	-2.16	-2.03
376	1.451505	17.20946	23.25279	376	1.15	3.05	-2.16	-2.03
377	1.434783	17.17568	23.2342	377	1.17	3.06	-2.16	-2.03
378	1.434783	17.19257	23.2342	378	1.16	3.06	-2.16	-2.02
379	1.434783	17.24324	23.19703	379	1.17	3.06	-2.16	-2.02
380	1.367893	17.24324	23.19703	380	1.19	3.06	-2.16	-2.02

Control_exp_1

Experiment type: Control experiment. This experiment consisted of just calcium perchlorate, weighing 78.40 g. The humidity buffer was KCl which has a RH of 88.61% at 0 degrees Celsius.

Chiller was set to -17°C. Temperature around the sample was controlled by the chiller.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= humidity buffer 3= atmosphere 4= sample

Mass		RH				T				
Min.	Mass	Min.	Ch02	Ch03	Ch04	Min.	Ch01	Ch02	Ch03	Ch04
0	125.24	0	20.04324	28.00286	59.36842	0	19.22	-0.28	-1.13	-12.11
2	123.79	1	19.19189	25.78857	55.40643	1	16.91	-3.05	-4.68	-14.51
4	123.54	2	17.93514	22.98857	52.52632	2	14.02	-3.9	-9.08	-17.5
6	123.21	3	17.28649	22.04571	51.29825	3	12.51	-4.59	-9.24	-14.93
8	123.11	4	17.48919	22.47429	51.10819	4	11.65	-4.13	-9.17	-13.69
10	123.16	5	17.58378	21.70286	51.76608	5	11.01	-3.89	-8.89	-13.26
12	123.03	6	16.98919	20.76	52.81871	6	10.53	-3.39	-8.22	-12.82
14	122.99	7	15.36757	20.03143	53.78363	7	10.19	-3.27	-7.13	-12.42
16	122.94	8	13.38108	18.91714	54.55848	8	9.97	-3.28	-6.28	-12.12
18	122.91	9	11.90811	17.60286	55.12865	9	9.81	-3.32	-5.85	-11.9
20	122.88	10	10.92162	16.68857	55.47953	10	9.69	-3.35	-5.62	-11.74
22	122.85	11	10.28649	16.13143	55.75731	11	9.59	-3.38	-5.51	-11.63
24	122.85	12	9.962162	15.71714	56.09357	12	9.54	-3.39	-5.44	-11.54
26	122.83	13	9.840541	15.43143	56.44444	13	9.49	-3.4	-5.38	-11.47
28	122.82	14	9.718919	15.13143	56.69298	14	9.44	-3.42	-5.35	-11.42
30	122.8	15	9.664865	14.88857	56.9269	15	9.4	-3.42	-5.33	-11.38
32	122.78	16	9.691892	14.73143	57.20468	16	9.38	-3.41	-5.31	-11.34
34	122.77	17	9.759459	14.57429	57.45322	17	9.37	-3.4	-5.28	-11.3
36	122.75	18	9.745946	14.51714	57.67251	18	9.35	-3.39	-5.25	-11.27
38	122.74	19	9.745946	14.47429	57.95029	19	9.33	-3.39	-5.24	-11.24
40	122.73	20	9.786486	14.37429	58.28655	20	9.32	-3.37	-5.22	-11.22
42	122.71	21	9.840541	14.26	58.54971	21	9.31	-3.36	-5.22	-11.19
44	122.71	22	10.0027	14.63143	58.78363	22	9.28	-3.38	-5.42	-11.2
46	122.7	23	10.88108	15.80286	58.73977	23	9.24	-3.35	-5.72	-11.22
48	122.69	24	12.43514	17.20286	58.50585	24	9.22	-3.29	-5.84	-11.23
50	122.68	25	13.85405	18.27429	58.31579	25	9.23	-3.23	-5.86	-11.24
52	122.68	26	14.48919	18.74571	58.40351	26	9.23	-3.22	-5.88	-11.23
54	122.67	27	14.24595	18.78857	58.76901	27	9.2	-3.22	-5.91	-11.2
56	122.66	28	13.82703	18.71714	59.07602	28	9.17	-3.2	-5.92	-11.15
58	122.65	29	13.40811	18.94571	59.25146	29	9.15	-3.17	-6.11	-11.12
60	122.65	30	13.20541	19.27429	59.38304	30	9.14	-3.14	-6.34	-11.09

62	122.64	31	13.27297	19.51714	59.52924	31	9.14	-3.11	-6.45	-11.05
64	122.63	32	13.5027	19.61714	59.61696	32	9.13	-3.09	-6.5	-11.02
66	122.63	33	13.84054	19.60286	59.70468	33	9.13	-3.07	-6.51	-10.98
68	122.62	34	14.11081	19.63143	59.82164	34	9.13	-3.04	-6.51	-10.94
70	122.62	35	14.28649	19.60286	59.92398	35	9.14	-3.01	-6.51	-10.89
72	122.61	36	14.42162	19.64571	60.07018	36	9.14	-2.99	-6.51	-10.85
74	122.61	37	14.5027	19.70286	60.17251	37	9.14	-2.96	-6.5	-10.81
76	122.59	38	14.5973	19.66	60.20175	38	9.15	-2.93	-6.49	-10.76
78	122.59	39	14.69189	19.73143	60.27485	39	9.16	-2.9	-6.49	-10.72
80	122.6	40	14.77297	19.77429	60.31871	40	9.16	-2.88	-6.48	-10.68
82	122.59	41	14.78649	19.83143	60.43567	41	9.16	-2.85	-6.48	-10.63
84	122.59	42	14.81351	19.93143	60.53801	42	9.17	-2.82	-6.47	-10.58
86	122.59	43	14.84054	20.06	60.53801	43	9.17	-2.8	-6.47	-10.55
88	122.59	44	14.78649	20.07429	60.62573	44	9.17	-2.77	-6.48	-10.5
90	122.59	45	14.69189	20.18857	60.72807	45	9.17	-2.75	-6.48	-10.46
92	122.59	46	14.55676	20.23143	60.80117	46	9.17	-2.73	-6.48	-10.43
94	122.59	47	14.58378	20.18857	60.85965	47	9.18	-2.7	-6.48	-10.39
96	122.58	48	14.58378	20.28857	60.94737	48	9.19	-2.67	-6.46	-10.35
98	122.58	49	14.58378	20.31714	61.02047	49	9.19	-2.65	-6.47	-10.32
100	122.58	50	14.5973	20.27429	61.07895	50	9.19	-2.63	-6.46	-10.28
102	122.59	51	14.54324	20.28857	61.15205	51	9.2	-2.6	-6.46	-10.25
104	122.58	52	14.52973	20.27429	61.13743	52	9.2	-2.58	-6.46	-10.22
106	122.39	53	14.46216	20.21714	61.19591	53	9.2	-2.55	-6.45	-10.19
108	122.59	54	14.44865	20.20286	61.28363	54	9.21	-2.53	-6.44	-10.15
110	122.59	55	14.40811	20.14571	61.35673	55	9.21	-2.51	-6.44	-10.12
112	122.58	56	14.34054	20.11714	61.44444	56	9.21	-2.49	-6.44	-10.08
114	122.59	57	14.25946	20.10286	61.47368	57	9.22	-2.47	-6.44	-10.05
116	122.59	58	14.20541	20.04571	61.50292	58	9.23	-2.44	-6.43	-10.02
118	122.59	59	14.13784	20.00286	61.61988	59	9.23	-2.41	-6.42	-9.99
120	122.59	60	14.07027	19.94571	61.69298	60	9.24	-2.39	-6.41	-9.96
122	122.59	61	14.01622	19.84571	61.64912	61	9.24	-2.37	-6.41	-9.93
124	122.59	62	13.97568	19.70286	61.61988	62	9.24	-2.36	-6.4	-9.91
126	122.59	63	13.86757	19.60286	61.7076	63	9.25	-2.33	-6.38	-9.89
128	122.59	64	13.71892	19.41714	61.64912	64	9.25	-2.3	-6.36	-9.86
130	122.59	65	13.61081	19.28857	61.59064	65	9.26	-2.28	-6.35	-9.83
132	122.59	66	13.51622	19.20286	61.53216	66	9.27	-2.26	-6.33	-9.8
134	122.59	67	13.38108	19.11714	61.47368	67	9.27	-2.23	-6.31	-9.77
136	122.59	68	13.20541	19.04571	61.38596	68	9.28	-2.21	-6.3	-9.75
138	122.59	69	12.97568	18.96	61.26901	69	9.28	-2.19	-6.29	-9.72
140	122.59	70	12.73243	18.84571	61.19591	70	9.29	-2.17	-6.28	-9.7
142	122.59	71	12.54324	18.71714	61.09357	71	9.29	-2.15	-6.27	-9.67
144	122.59	72	12.38108	18.60286	60.97661	72	9.29	-2.13	-6.26	-9.65
146	122.59	73	12.19189	18.47429	60.84503	73	9.3	-2.1	-6.24	-9.63
148	122.6	74	11.96216	18.24571	60.61111	74	9.3	-2.09	-6.23	-9.61
150	122.59	75	11.75946	17.93143	60.34795	75	9.31	-2.06	-6.21	-9.58

152	122.6	76	11.66486	17.57429	60.05556	76	9.32	-2.04	-6.19	-9.56
154	122.6	77	11.43514	17.33143	59.67544	77	9.32	-2.02	-6.17	-9.53
156	122.6	78	10.84054	17.21714	59.19298	78	9.32	-1.99	-6.06	-9.49
158	122.59	79	10.23243	17.04571	58.72515	79	9.31	-1.98	-6.17	-9.47
160	122.6	80	10.11081	16.54571	58.25731	80	9.31	-1.95	-6.19	-9.44
162	122.6	81	10.3	15.87429	57.77485	81	9.33	-1.92	-6.15	-9.41
164	122.59	82	10.47568	15.31714	57.27778	82	9.34	-1.9	-6.1	-9.39
166	122.6	83	10.57027	14.76	56.79532	83	9.34	-1.88	-6.07	-9.37
168	122.6	84	10.52973	14.24571	56.35673	84	9.35	-1.85	-6.02	-9.34
170	123.15	85	10.39459	13.76	55.88889	85	9.35	-1.83	-5.98	-9.32
172	122.6	86	10.19189	13.23143	55.46491	86	9.35	-1.82	-5.94	-9.3
174	122.6	87	9.921622	12.81714	55.0117	87	9.36	-1.79	-5.89	-9.28
176	122.6	88	9.637838	12.48857	54.61696	88	9.36	-1.77	-5.86	-9.26
178	122.6	89	9.367568	12.03143	54.33918	89	9.37	-1.75	-5.81	-9.23
180	122.6	90	9.07027	11.51714	54.0614	90	9.37	-1.73	-5.77	-9.21
182	122.6	91	8.759459	11.03143	53.73977	91	9.38	-1.71	-5.72	-9.19
184	122.6	92	8.421622	10.53143	53.34503	92	9.38	-1.69	-5.68	-9.17
186	122.6	93	8.043243	10.00286	52.87719	93	9.38	-1.67	-5.62	-9.15
188	122.6	94	7.678378	9.402857	52.39474	94	9.38	-1.65	-5.56	-9.13
190	122.6	95	7.340541	8.902857	51.89766	95	9.39	-1.62	-5.46	-9.12
192	122.6	96	6.867568	8.431429	51.37135	96	9.4	-1.61	-5.37	-9.11
194	122.6	97	6.083784	7.931429	50.71345	97	9.39	-1.59	-5.33	-9.08
196	122.6	98	5.272973	7.274286	49.7924	98	9.39	-1.56	-5.3	-9.06
198	122.6	99	4.8	6.402857	48.65205	99	9.38	-1.55	-5.25	-9.05
200	122.6	100	4.556757	5.588571	47.26316	100	9.39	-1.53	-5.19	-9.03
202	122.6	101	4.327027	4.902857	45.40643	101	9.4	-1.51	-5.13	-9
204	122.6	102	4.02973	4.402857	43.21345	102	9.4	-1.5	-5.09	-8.99
206	122.64	103	3.705405	3.945714	41.26901	103	9.4	-1.53	-5.06	-8.97
208	122.6	104	3.367568	3.545714	39.55848	104	9.41	-1.5	-5.04	-8.95
210	122.6	105	3.016216	3.245714	37.32164	105	9.41	-1.48	-5.19	-8.93
212	122.6	106	2.624324	2.96	34.58772	106	9.41	-1.46	-5.04	-8.91
214	122.6	107	2.205405	2.574286	31.69298	107	9.41	-1.44	-5	-8.9
216	122.6	108	1.854054	2.16	29.10526	108	9.42	-1.42	-4.94	-8.88
218	122.6	109	1.52973	1.831429	26.88304	109	9.42	-1.41	-4.9	-8.86
220	122.59	110	1.232432	1.56	24.33918	110	9.43	-1.38	-4.86	-8.84
222	122.63	111	1.02973	1.245714	21.82456	111	9.44	-1.36	-4.83	-8.81
224	122.6	112	0.827027	1.031429	19.74854	112	9.44	-1.34	-4.81	-8.79
226	122.6	113	0.583784	0.817143	18.03801	113	9.45	-1.32	-4.78	-8.77
228	122.59	114	0.327027	0.545714	16.64912	114	9.45	-1.3	-4.77	-8.76
230	122.6	115	0.110811	0.345714	15.72807	115	9.45	-1.29	-4.74	-8.74
232	122.6	116	0.105405	0.174286	15.50877	116	9.46	-1.27	-4.71	-8.72
234	122.59	117	0.375676	0.025714	15.11404	117	9.46	-1.25	-4.7	-8.7
236	122.59	118	0.591892	0.225714	13.52047	118	9.47	-1.23	-4.68	-8.69
238	122.63	119	0.754054	0.425714	11.26901	119	9.47	-1.22	-4.66	-8.67
240	123.04	120	0.902703	0.597143	9.5	120	9.47	-1.2	-4.64	-8.65

242	122.59	121	1.051351	0.711429	8.330409	121	9.47	-1.19	-4.63	-8.64
244	122.59	122	1.159459	0.811429	7.438596	122	9.48	-1.18	-4.61	-8.62
246	122.62	123	1.240541	0.968571	6.751462	123	9.47	-1.16	-4.6	-8.61
248	122.62	124	1.335135	1.068571	6.137427	124	9.49	-1.14	-4.58	-8.59
250	122.63	125	1.42973	1.182857	5.640351	125	9.48	-1.13	-4.57	-8.57
252	122.62	126	1.537838	1.325714	5.289474	126	9.49	-1.11	-4.55	-8.55
254	122.59	127	1.645946	1.44	4.923977	127	9.5	-1.09	-4.53	-8.53
256	122.58	128	1.727027	1.568571	4.602339	128	9.5	-1.08	-4.52	-8.52
258	122.59	129	1.781081	1.611429	4.280702	129	9.51	-1.05	-4.5	-8.49
260	122.58	130	1.875676	1.711429	3.944444	130	9.51	-1.04	-4.49	-8.47
262	122.59	131	1.956757	1.811429	3.710526	131	9.52	-1.02	-4.47	-8.45
264	122.59	132	2.024324	1.854286	3.432749	132	9.53	-1	-4.46	-8.43
266	122.59	133	2.091892	1.954286	3.154971	133	9.53	-0.99	-4.45	-8.42
268	122.59	134	2.172973	2.054286	2.950292	134	9.54	-0.96	-4.43	-8.39
270	122.59	135	2.227027	2.168571	2.745614	135	9.54	-0.95	-4.42	-8.37
272	122.59	136	2.267568	2.254286	2.555556	136	9.55	-0.93	-4.41	-8.35
274	122.58	137	2.321622	2.268571	2.350877	137	9.55	-0.93	-4.41	-8.34
276	122.58	138	2.375676	2.311429	2.219298	138	9.55	-0.91	-4.4	-8.32
278	122.58	139	2.42973	2.325714	2	139	9.56	-0.89	-4.38	-8.3
280	122.58	140	2.510811	2.368571	1.751462	140	9.57	-0.87	-4.37	-8.28
282	122.59	141	2.524324	2.425714	1.576023	141	9.57	-0.86	-4.37	-8.26
284	122.59	142	2.591892	2.511429	1.400585	142	9.57	-0.85	-4.36	-8.25
286	122.58	143	2.645946	2.597143	1.195906	143	9.57	-0.83	-4.38	-8.23
288	122.58	144	2.727027	2.697143	0.976608	144	9.58	-0.82	-4.49	-8.21
290	122.58	145	2.727027	2.768571	0.815789	145	9.59	-0.8	-4.46	-8.19
292	122.58	146	2.754054	2.797143	0.72807	146	9.59	-0.78	-4.42	-8.17
294	122.58	147	2.767568	2.825714	0.581871	147	9.59	-0.77	-4.37	-8.16
296	122.58	148	2.781081	2.868571	0.333333	148	9.59	-0.76	-4.34	-8.14
298	122.59	149	2.835135	2.882857	0.201754	149	9.59	-0.75	-4.31	-8.13
300	122.61	150	2.889189	2.911429	0.084795	150	9.6	-0.74	-4.33	-8.11
302	122.58	151	2.92973	2.968571	0.076023	151	9.61	-0.72	-4.36	-8.09
304	122.58	152	2.916216	3.025714	0.192982	152	9.61	-0.7	-4.34	-8.07
306	122.58	153	2.916216	3.054286	0.353801	153	9.62	-0.69	-4.27	-8.05
308	122.58	154	2.943243	3.111429	0.52924	154	9.62	-0.68	-4.23	-8.04
310	122.54	155	3.024324	3.154286	0.675439	155	9.63	-0.66	-4.2	-8.01
312	122.53	156	3.091892	3.211429	0.792398	156	9.63	-0.65	-4.19	-8
314	122.53	157	3.064865	3.225714	0.850877	157	9.64	-0.63	-4.18	-7.98
316	122.54	158	3.105405	3.211429	0.953216	158	9.64	-0.62	-4.17	-7.96
318	122.56	159	3.118919	3.282857	1.114035	159	9.64	-0.61	-4.17	-7.95
320	122.53	160	3.118919	3.34	1.289474	160	9.65	-0.59	-4.15	-7.92
322	122.53	161	3.145946	3.354286	1.391813	161	9.66	-0.57	-4.14	-7.9
324	122.53	162	3.172973	3.368571	1.494152	162	9.65	-0.57	-4.14	-7.89
326	122.53	163	3.172973	3.325714	1.640351	163	9.66	-0.56	-4.13	-7.87
328	122.53	164	3.2	3.354286	1.75731	164	9.66	-0.55	-4.17	-7.86
330	122.52	165	3.254054	3.397143	1.830409	165	9.67	-0.53	-4.19	-7.84

332	122.51	166	3.281081	3.411429	1.932749	166	9.67	-0.52	-4.15	-7.83
334	122.52	167	3.294595	3.454286	2.049708	167	9.68	-0.51	-4.12	-7.81
336	122.52	168	3.335135	3.54	2.122807	168	9.68	-0.49	-4.1	-7.79
338	122.51	169	3.348649	3.54	2.254386	169	9.68	-0.48	-4.09	-7.78
340	122.51	170	3.321622	3.554286	2.400585	170	9.69	-0.47	-4.08	-7.76
342	122.51	171	3.335135	3.582857	2.459064	171	9.69	-0.46	-4.07	-7.74
344	122.51	172	3.348649	3.582857	2.546784	172	9.7	-0.45	-4.07	-7.73
346	122.55	173	3.375676	3.625714	2.678363	173	9.69	-0.44	-4.07	-7.72
348	122.51	174	3.375676	3.654286	2.780702	174	9.7	-0.43	-4.05	-7.7
350	122.51	175	3.362162	3.668571	2.897661	175	9.7	-0.42	-4.05	-7.68
352	122.51	176	3.375676	3.682857	2.95614	176	9.71	-0.4	-4.04	-7.67
354	122.51	177	3.443243	3.697143	3.04386	177	9.72	-0.39	-4.03	-7.65
356	122.51	178	3.483784	3.682857	3.116959	178	9.72	-0.38	-4.02	-7.63
358	122.51	179	3.47027	3.725714	3.175439	179	9.72	-0.36	-4.02	-7.61
360	122.51	180	3.483784	3.754286	3.277778	180	9.73	-0.35	-4.01	-7.59
362	122.51	181	3.483784	3.782857	3.365497	181	9.73	-0.34	-4	-7.58
364	122.51	182	3.483784	3.84	3.423977	182	9.74	-0.33	-4	-7.56
366	122.51	183	3.483784	3.854286	3.497076	183	9.75	-0.31	-3.99	-7.54
368	122.54	184	3.497297	3.825714	3.584795	184	9.75	-0.31	-3.99	-7.53
370	122.5	185	3.537838	3.868571	3.687135	185	9.75	-0.3	-3.98	-7.52
372	122.5	186	3.564865	3.911429	3.730994	186	9.75	-0.29	-3.98	-7.5
374	122.5	187	3.578378	3.911429	3.818713	187	9.75	-0.28	-3.97	-7.49
376	122.5	188	3.578378	3.94	3.921053	188	9.76	-0.27	-3.97	-7.47
378	122.54	189	3.605405	4.011429	4.023392	189	9.76	-0.23	-3.93	-7.46
380	122.46	190	3.591892	4.025714	4.096491	190	9.76	-0.26	-3.89	-7.46
382	122.49	191	3.605405	4.025714	4.067251	191	9.76	-0.25	-3.92	-7.44
384	122.49	192	3.605405	4.025714	4.111111	192	9.76	-0.21	-3.88	-7.43
386	122.49	193	3.632432	4.04	4.111111	193	9.76	-0.23	-3.88	-7.43
388	122.52	194	3.632432	4.068571	4.184211	194	9.77	-0.2	-3.91	-7.4
390	122.52	195	3.632432	4.111429	4.24269	195	9.77	-0.19	-3.84	-7.39
392	122.49	196	3.659459	4.082857	4.28655	196	9.78	-0.19	-3.89	-7.38
394	122.49	197	3.686486	4.054286	4.432749	197	9.79	-0.15	-3.87	-7.36
396	122.52	198	3.659459	4.125714	4.447368	198	9.78	-0.18	-3.89	-7.36
398	122.52	199	3.672973	4.111429	4.491228	199	9.79	-0.15	-3.89	-7.33
400	122.48	200	3.7	4.125714	4.578947	200	9.79	-0.14	-3.8	-7.33
402	122.49	201	3.754054	4.14	4.637427	201	9.8	-0.14	-3.83	-7.31
404	122.49	202	3.781081	4.211429	4.652047	202	9.81	-0.1	-3.81	-7.28
406	122.49	203	3.740541	4.254286	4.681287	203	9.81	-0.11	-3.78	-7.28
408	122.52	204	3.754054	4.268571	4.725146	204	9.81	-0.11	-3.86	-7.27
410	122.48	205	3.767568	4.24	4.754386	205	9.81	-0.08	-3.79	-7.25
412	122.48	206	3.794595	4.225714	4.798246	206	9.82	-0.09	-3.79	-7.25
414	122.48	207	3.794595	4.225714	4.871345	207	9.82	-0.06	-3.79	-7.22
416	122.48	208	3.781081	4.254286	4.885965	208	9.83	-0.06	-3.74	-7.22
418	122.48	209	3.821622	4.282857	4.871345	209	9.83	-0.06	-3.78	-7.21
420	122.48	210	3.808108	4.311429	4.900585	210	9.83	-0.02	-3.73	-7.19

422	122.48	211	3.794595	4.297143	4.973684	211	9.84	-0.04	-3.75	-7.18
424	122.52	212	3.808108	4.297143	4.915205	212	9.84	-0.01	-3.74	-7.16
426	122.47	213	3.835135	4.354286	4.959064	213	9.84	-0.03	-3.72	-7.17
428	122.48	214	3.848649	4.34	4.988304	214	9.85	-0.01	-3.75	-7.14
430	122.48	215	3.835135	4.382857	5.032164	215	9.85	0.01	-3.69	-7.14
432	122.47	216	3.835135	4.368571	5.105263	216	9.85	-0.01	-3.74	-7.13
434	122.48	217	3.848649	4.368571	5.163743	217	9.86	0.04	-3.68	-7.1
436	122.48	218	3.848649	4.411429	5.178363	218	9.85	0.01	-3.72	-7.11
438	122.48	219	3.835135	4.425714	5.222222	219	9.86	0.05	-3.69	-7.08
440	122.48	220	3.835135	4.397143	5.207602	220	9.87	0.03	-3.69	-7.08
442	122.48	221	3.875676	4.411429	5.280702	221	9.87	0.07	-3.7	-7.06
444	122.47	222	3.902703	4.425714	5.339181	222	9.88	0.06	-3.66	-7.05
446	122.48	223	3.875676	4.411429	5.353801	223	9.88	0.07	-3.69	-7.04
448	122.47	224	3.889189	4.425714	5.412281	224	9.88	0.08	-3.64	-7.04
		225	3.902703	4.468571	5.383041	225	9.87	0.07	-3.69	-7.03
		226	3.916216	4.454286	5.397661	226	9.88	0.11	-3.63	-7.01
		227	3.916216	4.411429	5.426901	227	9.88	0.09	-3.67	-7.01
		228	3.92973	4.497143	5.426901	228	9.89	0.12	-3.63	-6.99
		229	3.916216	4.554286	5.44152	229	9.89	0.11	-3.66	-6.98
		230	3.916216	4.54	5.383041	230	9.89	0.13	-3.61	-6.98
		231	3.92973	4.54	5.45614	231	9.89	0.12	-3.66	-6.97
		232	3.943243	4.54	5.51462	232	9.89	0.15	-3.6	-6.95
		233	3.943243	4.554286	5.48538	233	9.9	0.13	-3.64	-6.94
		234	3.956757	4.568571	5.51462	234	9.9	0.17	-3.6	-6.93
		235	3.943243	4.554286	5.55848	235	9.9	0.15	-3.65	-6.93
		236	3.97027	4.511429	5.573099	236	9.9	0.18	-3.6	-6.91
		237	3.997297	4.54	5.660819	237	9.9	0.16	-3.63	-6.91
		238	3.983784	4.568571	5.646199	238	9.91	0.2	-3.57	-6.89
		239	3.97027	4.611429	5.675439	239	9.91	0.2	-3.6	-6.88
		240	4.010811	4.625714	5.660819	240	9.91	0.2	-3.57	-6.88
		241	3.983784	4.611429	5.690058	241	9.92	0.21	-3.6	-6.86
		242	3.983784	4.611429	5.733918	242	9.92	0.22	-3.55	-6.86
		243	3.997297	4.625714	5.748538	243	9.92	0.22	-3.6	-6.85
		244	4.037838	4.654286	5.792398	244	9.92	0.23	-3.55	-6.84
		245	3.997297	4.682857	5.807018	245	9.93	0.23	-3.59	-6.83
		246	4.024324	4.697143	5.792398	246	9.93	0.26	-3.55	-6.82
		247	4.037838	4.625714	5.836257	247	9.93	0.26	-3.56	-6.81
		248	4.024324	4.625714	5.807018	248	9.93	0.25	-3.54	-6.81
		249	4.064865	4.668571	5.777778	249	9.94	0.28	-3.55	-6.79
		250	4.037838	4.611429	5.777778	250	9.94	0.26	-3.53	-6.79
		251	4.064865	4.625714	5.792398	251	9.94	0.28	-3.56	-6.78
		252	4.064865	4.668571	5.821637	252	9.95	0.29	-3.51	-6.77
		253	4.064865	4.74	5.865497	253	9.95	0.3	-3.55	-6.76
		254	4.078378	4.711429	5.865497	254	9.96	0.31	-3.49	-6.75
		255	4.064865	4.74	5.923977	255	9.96	0.31	-3.54	-6.74

256	4.078378	4.768571	5.909357	256	9.96	0.32	-3.49	-6.73
257	4.037838	4.725714	5.953216	257	9.96	0.34	-3.5	-6.72
258	4.024324	4.711429	5.938596	258	9.97	0.32	-3.5	-6.72
259	4.037838	4.668571	5.967836	259	9.97	0.36	-3.49	-6.7
260	4.024324	4.697143	5.953216	260	9.97	0.34	-3.56	-6.7
261	4.064865	4.697143	5.967836	261	9.97	0.36	-3.5	-6.7
262	4.105405	4.711429	5.982456	262	9.97	0.37	-3.5	-6.68
263	4.078378	4.697143	5.938596	263	9.98	0.35	-3.48	-6.68
264	4.091892	4.697143	5.967836	264	9.98	0.39	-3.46	-6.66
265	4.105405	4.654286	5.967836	265	9.98	0.37	-3.48	-6.66
266	4.132432	4.711429	6.011696	266	9.99	0.41	-3.44	-6.64
267	4.091892	4.74	6.040936	267	9.99	0.38	-3.47	-6.65
268	4.105405	4.711429	6.026316	268	10	0.42	-3.44	-6.63
269	4.091892	4.768571	6.055556	269	10	0.4	-3.46	-6.63
270	4.105405	4.697143	6.026316	270	10	0.44	-3.43	-6.61
271	4.078378	4.725714	6.055556	271	10	0.41	-3.46	-6.62
272	4.105405	4.74	6.114035	272	10	0.44	-3.44	-6.61
273	4.105405	4.697143	6.157895	273	10	0.42	-3.45	-6.61
274	4.091892	4.711429	6.128655	274	10.01	0.45	-3.43	-6.59
275	4.118919	4.768571	6.099415	275	10.01	0.43	-3.45	-6.59
276	4.132432	4.782857	6.114035	276	10.01	0.46	-3.4	-6.58
277	4.132432	4.797143	6.143275	277	10.02	0.47	-3.42	-6.56
278	4.145946	4.797143	6.114035	278	10.02	0.45	-3.42	-6.57
279	4.132432	4.74	6.157895	279	10.02	0.48	-3.4	-6.56
280	4.132432	4.74	6.216374	280	10.03	0.48	-3.42	-6.54
281	4.145946	4.725714	6.216374	281	10.03	0.49	-3.37	-6.54
282	4.132432	4.768571	6.172515	282	10.03	0.5	-3.41	-6.53
283	4.118919	4.811429	6.157895	283	10.04	0.5	-3.37	-6.52
284	4.132432	4.825714	6.157895	284	10.03	0.52	-3.4	-6.51
285	4.132432	4.811429	6.157895	285	10.04	0.51	-3.37	-6.51
286	4.159459	4.782857	6.187135	286	10.04	0.53	-3.38	-6.5
287	4.145946	4.782857	6.216374	287	10.05	0.52	-3.36	-6.5
288	4.145946	4.797143	6.245614	288	10.05	0.55	-3.37	-6.48
289	4.118919	4.74	6.230994	289	10.06	0.54	-3.35	-6.48
290	4.132432	4.74	6.274854	290	10.06	0.57	-3.38	-6.47
291	4.118919	4.811429	6.289474	291	10.07	0.56	-3.36	-6.46
292	4.132432	4.811429	6.274854	292	10.08	0.59	-3.34	-6.45
293	4.172973	4.811429	6.274854	293	10.08	0.57	-3.34	-6.45
294	4.159459	4.768571	6.289474	294	10.08	0.6	-3.33	-6.44
295	4.159459	4.811429	6.318713	295	10.08	0.58	-3.34	-6.44
296	4.186486	4.811429	6.362573	296	10.08	0.61	-3.31	-6.42
297	4.186486	4.854286	6.377193	297	10.08	0.59	-3.33	-6.42
298	4.2	4.825714	6.377193	298	10.08	0.62	-3.31	-6.41
299	4.213514	4.825714	6.377193	299	10.08	0.59	-3.34	-6.42
300	4.186486	4.868571	6.347953	300	10.09	0.63	-3.3	-6.4

301	4.2	4.868571	6.304094	301	10.09	0.61	-3.33	-6.4
302	4.186486	4.868571	6.347953	302	10.09	0.63	-3.29	-6.4
303	4.186486	4.811429	6.406433	303	10.09	0.64	-3.3	-6.39
304	4.172973	4.797143	6.377193	304	10.09	0.62	-3.32	-6.4
305	4.186486	4.811429	6.377193	305	10.09	0.65	-3.29	-6.39
306	4.172973	4.811429	6.377193	306	10.09	0.64	-3.31	-6.38
307	4.159459	4.84	6.333333	307	10.1	0.64	-3.29	-6.38
308	4.186486	4.868571	6.333333	308	10.1	0.67	-3.28	-6.36
309	4.213514	4.84	6.406433	309	10.1	0.65	-3.31	-6.36
310	4.186486	4.782857	6.391813	310	10.11	0.68	-3.26	-6.35
311	4.2	4.825714	6.406433	311	10.11	0.68	-3.29	-6.34
312	4.186486	4.84	6.391813	312	10.11	0.66	-3.28	-6.35
313	4.2	4.84	6.421053	313	10.11	0.69	-3.27	-6.34
314	4.213514	4.882857	6.421053	314	10.11	0.68	-3.29	-6.34
315	4.2	4.854286	6.464912	315	10.11	0.69	-3.26	-6.33
316	4.2	4.825714	6.435673	316	10.12	0.71	-3.27	-6.32
317	4.186486	4.868571	6.406433	317	10.11	0.68	-3.29	-6.33
318	4.213514	4.868571	6.406433	318	10.13	0.72	-3.24	-6.31
319	4.186486	4.882857	6.435673	319	10.13	0.72	-3.27	-6.31
320	4.213514	4.882857	6.450292	320	10.13	0.71	-3.26	-6.31
321	4.186486	4.94	6.421053	321	10.13	0.74	-3.24	-6.29
322	4.172973	4.897143	6.421053	322	10.13	0.71	-3.27	-6.3
323	4.172973	4.897143	6.450292	323	10.14	0.75	-3.23	-6.29
324	4.186486	4.882857	6.464912	324	10.14	0.73	-3.27	-6.29
325	4.213514	4.911429	6.479532	325	10.14	0.76	-3.23	-6.27
326	3.97027	4.94	6.479532	326	10.14	0.75	-3.25	-6.27
327	4.2	4.954286	6.479532	327	10.14	0.74	-3.23	-6.28
328	4.024324	4.911429	6.479532	328	10.14	0.77	-3.22	-6.27
329	4.064865	4.925714	6.464912	329	10.15	0.76	-3.25	-6.26
330	4.051351	4.911429	6.508772	330	10.15	0.76	-3.23	-6.26
331	4.024324	4.954286	6.494152	331	10.14	0.77	-3.25	-6.26
332	4.2	4.954286	6.464912	332	10.15	0.76	-3.25	-6.26
333	4.2	4.911429	6.494152	333	10.15	0.79	-3.24	-6.24
334	4.064865	4.897143	6.538012	334	10.15	0.77	-3.25	-6.25
335	4.078378	4.911429	6.494152	335	10.16	0.81	-3.23	-6.23
336	4.064865	4.925714	6.464912	336	10.16	0.79	-3.24	-6.23
337	4.037838	4.911429	6.479532	337	10.17	0.82	-3.21	-6.22
338	4.078378	4.982857	6.538012	338	10.16	0.79	-3.23	-6.22
339	4.024324	4.954286	6.552632	339	10.17	0.83	-3.19	-6.2
340	4.051351	4.911429	6.523392	340	10.18	0.82	-3.22	-6.2
341	4.037838	4.925714	6.538012	341	10.17	0.82	-3.19	-6.21
342	3.983784	4.911429	6.552632	342	10.17	0.84	-3.18	-6.2
343	4.105405	4.94	6.581871	343	10.17	0.81	-3.19	-6.21
344	4.254054	4.968571	6.625731	344	10.19	0.85	-3.17	-6.18
345	4.254054	4.954286	6.581871	345	10.18	0.83	-3.19	-6.19

346	4.254054	4.94	6.567251	346	10.19	0.86	-3.16	-6.18
347	4.091892	4.925714	6.596491	347	10.19	0.84	-3.18	-6.17
348	4.254054	4.897143	6.596491	348	10.19	0.87	-3.14	-6.17
349	4.254054	4.94	6.596491	349	10.19	0.85	-3.19	-6.17
350	4.254054	4.925714	6.596491	350	10.19	0.88	-3.14	-6.16
351	4.064865	4.982857	6.581871	351	10.19	0.86	-3.19	-6.17
352	4.024324	4.954286	6.596491	352	10.19	0.87	-3.14	-6.17
353	4.024324	4.925714	6.611111	353	10.2	0.89	-3.15	-6.15
354	3.997297	4.925714	6.611111	354	10.2	0.87	-3.16	-6.16
355	4.254054	4.94	6.596491	355	10.22	0.91	-3.12	-6.13
356	4.254054	4.94	6.640351	356	10.21	0.9	-3.15	-6.13
357	4.064865	4.997143	6.611111	357	10.21	0.89	-3.13	-6.14
358	3.97027	4.954286	6.611111	358	10.21	0.92	-3.13	-6.13
359	4.037838	4.954286	6.611111	359	10.21	0.89	-3.14	-6.13
360	4.051351	4.954286	6.640351	360	10.22	0.93	-3.12	-6.12
361	4.091892	4.997143	6.669591	361	10.22	0.9	-3.14	-6.12
362	4.078378	5.025714	6.669591	362	10.22	0.93	-3.12	-6.12
363	3.983784	5.011429	6.640351	363	10.22	0.91	-3.14	-6.12
364	4.037838	4.997143	6.669591	364	10.22	0.94	-3.1	-6.11
365	4.037838	4.94	6.669591	365	10.22	0.92	-3.15	-6.11
366	4.254054	4.954286	6.654971	366	10.23	0.95	-3.09	-6.1
367	4.254054	4.982857	6.640351	367	10.23	0.93	-3.14	-6.1
368	4.254054	4.982857	6.684211	368	10.24	0.95	-3.09	-6.1
369	4.064865	4.997143	6.69883	369	10.24	0.95	-3.12	-6.09
370	4.064865	4.968571	6.684211	370	10.24	0.95	-3.1	-6.1
371	4.254054	4.968571	6.69883	371	10.25	0.97	-3.09	-6.08
372	4.254054	5.025714	6.75731	372	10.25	0.96	-3.11	-6.08
373	4.254054	4.982857	6.72807	373	10.25	0.98	-3.07	-6.08
374	4.254054	4.997143	6.669591	374	10.25	0.98	-3.09	-6.07
375	4.254054	4.982857	6.69883	375	10.26	0.97	-3.09	-6.07
376	4.064865	4.982857	6.69883	376	10.26	1	-3.07	-6.06
377	4.051351	4.954286	6.684211	377	10.26	0.98	-3.1	-6.06
378	4.254054	4.997143	6.669591	378	10.26	1	-3.05	-6.06
379	4.254054	4.982857	6.69883	379	10.26	1	-3.1	-6.05
380	4.254054	4.982857	6.74269	380	10.26	0.99	-3.06	-6.06
381	4.254054	4.997143	6.75731	381	10.27	1.02	-3.08	-6.04
382	4.254054	4.997143	6.69883	382	10.27	1	-3.07	-6.05
383	4.254054	5.011429	6.69883	383	10.28	1.03	-3.06	-6.03
384	4.105405	5.011429	6.669591	384	10.27	1	-3.08	-6.04
385	4.254054	4.997143	6.74269	385	10.27	1.03	-3.04	-6.03
386	4.078378	4.982857	6.74269	386	10.27	1.03	-3.07	-6.03
387	4.254054	5.011429	6.75731	387	10.27	1	-3.07	-6.04
388	4.254054	5.04	6.78655	388	10.27	1.03	-3.05	-6.03
389	4.254054	5.04	6.77193	389	10.27	1.03	-3.08	-6.03
390	4.254054	5.04	6.74269	390	10.28	1.03	-3.04	-6.02

391	4.254054	5.04	6.75731	391	10.28	1.04	-3.06	-6.02
392	4.254054	5.011429	6.75731	392	10.28	1.03	-3.06	-6.02
393	4.254054	5.04	6.75731	393	10.29	1.05	-3.04	-6.01
394	4.254054	5.011429	6.74269	394	10.28	1.05	-3.09	-6.02
395	4.254054	4.997143	6.74269	395	10.29	1.04	-3.06	-6.01
396	4.254054	5.025714	6.74269	396	10.29	1.06	-3.05	-6.01
397	4.254054	5.025714	6.80117	397	10.29	1.05	-3.07	-6
398	4.254054	5.054286	6.78655	398	10.29	1.06	-3.02	-6
399	4.254054	5.025714	6.80117	399	10.28	1.06	-3.06	-6
400	4.254054	5.011429	6.78655	400	10.29	1.05	-3.03	-6.01
401	4.254054	5.011429	6.77193	401	10.29	1.07	-3.05	-5.99
402	4.254054	5.011429	6.78655	402	10.29	1.06	-3.04	-6
403	4.254054	5.011429	6.78655	403	10.29	1.08	-3.03	-5.99
404	4.254054	5.025714	6.78655	404	10.29	1.06	-3.05	-5.99
405	4.254054	5.011429	6.78655	405	10.3	1.09	-3.01	-5.98
406	4.254054	5.025714	6.80117	406	10.3	1.09	-3.02	-5.97
407	4.254054	4.997143	6.80117	407	10.31	1.08	-3.02	-5.97
408	4.254054	4.997143	6.815789	408	10.31	1.11	-3	-5.97
409	4.254054	4.982857	6.830409	409	10.31	1.11	-3.01	-5.96
410	4.254054	4.982857	6.874269	410	10.32	1.1	-3	-5.96
411	4.254054	5.025714	6.903509	411	10.32	1.12	-2.98	-5.95
412	4.254054	5.068571	6.845029	412	10.31	1.09	-3.03	-5.96
413	4.254054	5.068571	6.830409	413	10.31	1.12	-2.99	-5.96
414	4.254054	4.997143	6.859649	414	10.31	1.1	-3.04	-5.96
415	4.254054	5.011429	6.80117	415	10.32	1.12	-2.98	-5.95
416	4.254054	5.054286	6.830409	416	10.31	1.12	-3.02	-5.95
417	4.254054	5.054286	6.830409	417	10.31	1.11	-2.99	-5.96
418	4.254054	5.054286	6.80117	418	10.31	1.13	-3.02	-5.95
419	4.254054	5.054286	6.830409	419	10.32	1.11	-2.99	-5.95
420	4.254054	5.068571	6.830409	420	10.32	1.14	-3	-5.94
421	4.254054	5.054286	6.859649	421	10.32	1.12	-3	-5.95
422	4.254054	5.054286	6.903509	422	10.33	1.15	-2.98	-5.93
423	4.254054	5.054286	6.874269	423	10.33	1.13	-3.01	-5.93
424	4.254054	5.025714	6.874269	424	10.34	1.16	-2.95	-5.93
425	4.254054	5.025714	6.903509	425	10.34	1.15	-3	-5.92
426	4.254054	4.997143	6.918129	426	10.34	1.15	-2.96	-5.92
427	4.254054	4.997143	6.918129	427	10.34	1.16	-2.99	-5.92
428	4.254054	5.04	6.947368	428	10.34	1.14	-2.98	-5.93
429	4.254054	5.054286	6.947368	429	10.34	1.17	-2.98	-5.92
430	4.254054	5.054286	6.903509	430	10.35	1.15	-2.98	-5.92
431	4.254054	5.068571	6.903509	431	10.35	1.18	-2.96	-5.91
432	4.254054	5.111429	6.874269	432	10.35	1.17	-2.98	-5.9
433	4.254054	5.111429	6.874269	433	10.35	1.17	-2.94	-5.91
434	4.254054	5.082857	6.888889	434	10.35	1.19	-2.97	-5.9
435	4.254054	5.04	6.874269	435	10.35	1.17	-2.96	-5.91

436	4.254054	5.025714	6.903509	436	10.35	1.19	-2.96	-5.9
437	4.254054	5.068571	6.903509	437	10.36	1.17	-2.96	-5.9
438	4.254054	5.04	6.918129	438	10.36	1.21	-2.94	-5.88
439	4.254054	5.068571	6.918129	439	10.36	1.18	-2.97	-5.89
440	4.254054	5.054286	6.961988	440	10.37	1.21	-2.93	-5.88
441	4.254054	5.025714	6.932749	441	10.36	1.18	-2.98	-5.9
442	4.254054	5.054286	6.918129	442	10.36	1.2	-2.94	-5.9
443	4.254054	5.04	6.932749	443	10.36	1.18	-2.99	-5.9
444	4.254054	5.054286	6.918129	444	10.35	1.19	-2.95	-5.91
445	4.254054	5.04	6.888889	445	10.35	1.19	-2.97	-5.91
446	4.254054	5.054286	6.918129	446	10.35	1.17	-2.99	-5.91
447	4.254054	5.082857	6.888889	447	10.35	1.2	-2.95	-5.91
448	4.254054	5.054286	6.888889	448	10.35	1.18	-3	-5.91

Control_exp_2

Experiment type: Control experiment. This experiment consisted of just JSC Mars-1, 2 cm thick, 327.84 g. There was not a humidity buffer inside the chamber. Chiller was set to -17°C. Temperature around the sample was controlled by the chiller.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= humidity buffer 3= atmosphere 4= sample

Mass		RH	T							
Min.	Mass	Min.	Ch02	Ch03	Ch04	Min.	Ch01	Ch02	Ch03	Ch04
0	378.87	0	2.989189	5.388571	10.50877	0	20.51	-4.53	-2.56	-10.46
2	379.99	1	3.516216	7.16	9.704678	1	17.85	-7.82	-4.8	-12.14
4	379.89	2	3.854054	9.745714	8.769006	2	14.66	-10.21	-9.74	-16.5
6	379.44	3	4.867568	12.88857	8.184211	3	13.1	-8.79	-9.21	-14.18
8	379.29	4	6.286486	13.61714	8.067251	4	12.19	-8.57	-9.12	-12
10	379.26	5	7.232432	11.34571	8.125731	5	11.59	-8.36	-8.83	-11.23
12	379.24	6	7.489189	9.202857	7.891813	6	11.15	-7.56	-7.99	-10.69
14	379.2	7	6.854054	7.802857	7.263158	7	10.86	-6.96	-7.2	-10.2
16	379.17	8	5.718919	6.574286	6.254386	8	10.65	-6.51	-6.82	-9.86
18	379.17	9	4.489189	5.488571	5.055556	9	10.49	-6.12	-6.48	-9.63
20	379.11	10	3.543243	4.574286	4.032164	10	10.37	-5.75	-6.14	-9.42
22	379.07	11	2.827027	3.66	3.315789	11	10.26	-5.54	-5.9	-9.25
24	379.03	12	2.07027	2.745714	2.672515	12	10.18	-5.36	-5.63	-9.12
26	378.97	13	1.259459	1.874286	1.98538	13	10.12	-5.19	-5.43	-9

28	378.93	14	0.610811	1.102857	1.415205	14	10.07	-5	-5.33	-8.91
30	378.91	15	0.164865	0.502857	0.888889	15	10.03	-4.84	-5.28	-8.82
32	378.9	16	0.240541	0.025714	0.347953	16	10	-4.7	-5.22	-8.75
34	378.87	17	0.564865	0.497143	0.134503	17	9.96	-4.56	-5.16	-8.71
36	378.88	18	0.794595	0.868571	0.587719	18	9.95	-4.43	-5.1	-8.67
38	378.71	19	1.024324	1.182857	0.953216	19	9.93	-4.3	-5.05	-8.63
40	378.85	20	1.240541	1.468571	1.304094	20	9.92	-4.18	-5	-8.59
42	378.84	21	1.42973	1.682857	1.625731	21	9.92	-4.05	-4.95	-8.55
44	378.84	22	1.632432	1.911429	1.903509	22	9.92	-3.94	-4.91	-8.51
46	378.84	23	1.862162	2.125714	2.181287	23	9.93	-3.82	-4.86	-8.48
48	378.82	24	2.091892	2.282857	2.400585	24	9.92	-3.72	-4.81	-8.47
50	378.83	25	2.267568	2.454286	2.561404	25	9.93	-3.61	-4.76	-8.45
52	378.85	26	2.416216	2.611429	2.795322	26	9.94	-3.51	-4.72	-8.42
54	378.8	27	2.564865	2.74	2.98538	27	9.94	-3.41	-4.7	-8.39
56	378.8	28	2.7	2.868571	3.087719	28	9.94	-3.32	-4.66	-8.37
58	378.8	29	2.767568	3.04	3.233918	29	9.96	-3.22	-4.61	-8.33
60	378.84	30	2.862162	3.14	3.321637	30	9.96	-3.13	-4.59	-8.31
62	378.78	31	2.92973	3.182857	3.423977	31	9.96	-3.06	-4.57	-8.29
64	378.78	32	3.024324	3.311429	3.584795	32	9.98	-2.97	-4.53	-8.26
66	378.76	33	3.118919	3.397143	3.774854	33	9.98	-2.89	-4.51	-8.24
68	378.77	34	3.186486	3.497143	3.891813	34	9.99	-2.81	-4.48	-8.21
70	378.76	35	3.240541	3.64	3.964912	35	10	-2.73	-4.45	-8.19
72	378.75	36	3.321622	3.682857	4.096491	36	10	-2.67	-4.43	-8.17
74	378.74	37	3.389189	3.825714	4.24269	37	10.01	-2.6	-4.41	-8.15
76	378.74	38	3.443243	3.925714	4.418129	38	10.02	-2.52	-4.38	-8.12
78	378.74	39	3.510811	3.94	4.505848	39	10.02	-2.46	-4.36	-8.1
80	378.72	40	3.551351	3.968571	4.593567	40	10.03	-2.39	-4.34	-8.08
82	378.73	41	3.591892	4.068571	4.666667	41	10.03	-2.33	-4.32	-8.06
84	378.71	42	3.632432	4.097143	4.739766	42	10.04	-2.27	-4.3	-8.04
86	378.73	43	3.686486	4.154286	4.871345	43	10.05	-2.21	-4.28	-8.02
88	378.72	44	3.727027	4.24	4.973684	44	10.05	-2.15	-4.26	-8
90	378.75	45	3.794595	4.282857	5.032164	45	10.06	-2.09	-4.24	-7.97
92	378.71	46	3.821622	4.311429	5.076023	46	10.07	-2.03	-4.22	-7.95
94	378.71	47	3.835135	4.34	5.149123	47	10.08	-1.97	-4.2	-7.93
96	378.72	48	3.862162	4.382857	5.178363	48	10.08	-1.92	-4.18	-7.91
98	378.71	49	3.875676	4.468571	5.207602	49	10.09	-1.85	-4.14	-7.88
100	378.7	50	3.916216	4.468571	5.251462	50	10.09	-1.82	-4.15	-7.87
102	378.7	51	3.92973	4.497143	5.295322	51	10.09	-1.77	-4.13	-7.85
104	378.73	52	3.92973	4.468571	5.324561	52	10.1	-1.72	-4.12	-7.83
106	378.7	53	3.97027	4.497143	5.339181	53	10.11	-1.66	-4.08	-7.8
108	378.7	54	4.024324	4.54	5.324561	54	10.11	-1.63	-4.09	-7.8
110	378.69	55	4.024324	4.54	5.383041	55	10.12	-1.57	-4.05	-7.77
112	378.69	56	3.983784	4.554286	5.44152	56	10.12	-1.53	-4.05	-7.76
114	378.69	57	3.983784	4.568571	5.426901	57	10.13	-1.47	-4.02	-7.73
116	378.68	58	3.956757	4.54	5.44152	58	10.12	-1.46	-4.04	-7.73

118	378.7	59	3.997297	4.525714	5.48538	59	10.13	-1.4	-4	-7.7
120	378.68	60	4.037838	4.554286	5.52924	60	10.14	-1.37	-4.01	-7.69
122	378.68	61	4.064865	4.597143	5.587719	61	10.15	-1.3	-3.96	-7.66
124	378.67	62	4.051351	4.64	5.587719	62	10.15	-1.27	-3.97	-7.65
126	378.66	63	4.037838	4.597143	5.602339	63	10.16	-1.24	-3.95	-7.64
128	378.65	64	4.078378	4.668571	5.646199	64	10.16	-1.18	-3.92	-7.61
130	378.65	65	4.064865	4.682857	5.675439	65	10.17	-1.15	-3.92	-7.59
132	378.65	66	4.064865	4.725714	5.719298	66	10.18	-1.11	-3.9	-7.59
134	378.66	67	4.064865	4.711429	5.733918	67	10.18	-1.08	-3.9	-7.57
136	378.65	68	4.078378	4.697143	5.777778	68	10.19	-1.02	-3.86	-7.54
138	378.64	69	4.064865	4.682857	5.821637	69	10.19	-1.01	-3.87	-7.53
140	378.63	70	4.064865	4.654286	5.850877	70	10.19	-0.97	-3.86	-7.52
142	378.63	71	4.078378	4.668571	5.836257	71	10.2	-0.92	-3.83	-7.49
144	378.63	72	4.132432	4.697143	5.821637	72	10.21	-0.9	-3.83	-7.48
146	378.64	73	4.159459	4.711429	5.807018	73	10.21	-0.87	-3.83	-7.48
148	378.63	74	4.145946	4.697143	5.807018	74	10.21	-0.82	-3.79	-7.45
150	378.62	75	4.132432	4.74	5.821637	75	10.21	-0.81	-3.81	-7.45
152	378.63	76	4.159459	4.782857	5.836257	76	10.22	-0.78	-3.81	-7.44
154	378.61	77	4.159459	4.797143	5.880117	77	10.22	-0.73	-3.76	-7.41
156	378.61	78	4.186486	4.797143	5.894737	78	10.22	-0.73	-3.78	-7.42
158	378.61	79	4.186486	4.797143	5.938596	79	10.23	-0.67	-3.75	-7.39
160	378.62	80	4.159459	4.84	5.982456	80	10.24	-0.66	-3.75	-7.38
162	378.59	81	4.145946	4.84	6.011696	81	10.24	-0.62	-3.74	-7.37
164	378.6	82	4.172973	4.84	6.026316	82	10.25	-0.6	-3.72	-7.35
166	378.61	83	4.2	4.825714	6.055556	83	10.24	-0.58	-3.74	-7.35
168	378.6	84	4.213514	4.825714	6.026316	84	10.25	-0.53	-3.7	-7.32
170	378.6	85	4.186486	4.782857	6.084795	85	10.26	-0.52	-3.71	-7.32
172	378.59	86	4.037838	4.84	6.114035	86	10.26	-0.47	-3.68	-7.29
174	378.59	87	4.2	4.897143	6.070175	87	10.27	-0.46	-3.69	-7.29
176	378.6	88	4.2	4.897143	6.026316	88	10.28	-0.42	-3.67	-7.27
178	378.59	89	4.172973	4.84	6.055556	89	10.28	-0.4	-3.65	-7.25
180	378.58	90	4.172973	4.825714	6.114035	90	10.28	-0.38	-3.66	-7.25
182	378.58	91	4.2	4.84	6.128655	91	10.29	-0.34	-3.62	-7.22
184	378.58	92	4.213514	4.897143	6.128655	92	10.3	-0.32	-3.63	-7.22
186	378.57	93	4.2	4.854286	6.157895	93	10.3	-0.29	-3.6	-7.2
188	378.59	94	4.186486	4.882857	6.143275	94	10.31	-0.26	-3.59	-7.18
190	378.57	95	4.213514	4.911429	6.157895	95	10.32	-0.24	-3.59	-7.17
192	378.57	96	4.2	4.897143	6.143275	96	10.32	-0.21	-3.57	-7.16
194	378.56	97	4.186486	4.911429	6.128655	97	10.32	-0.2	-3.58	-7.15
196	378.56	98	4.186486	4.94	6.216374	98	10.32	-0.17	-3.56	-7.14
198	378.57	99	4.172973	4.911429	6.216374	99	10.33	-0.15	-3.55	-7.12
200	378.6	100	4.2	4.911429	6.201754	100	10.33	-0.13	-3.56	-7.11
202	378.55	101	4.064865	4.911429	6.216374	101	10.34	-0.09	-3.52	-7.09
204	378.56	102	4.172973	4.94	6.201754	102	10.34	-0.09	-3.54	-7.09
206	378.56	103	4.254054	4.968571	6.230994	103	10.34	-0.05	-3.51	-7.07

208	378.56	104	4.078378	4.954286	6.260234	104	10.35	-0.05	-3.53	-7.07
210	378.56	105	4.051351	4.94	6.245614	105	10.35	-0.01	-3.5	-7.05
212	378.55	106	4.227027	4.968571	6.304094	106	10.35	-0.01	-3.51	-7.05
214	378.55	107	4.213514	4.897143	6.289474	107	10.35	0.03	-3.49	-7.03
216	378.55	108	3.997297	4.94	6.245614	108	10.35	0.03	-3.49	-7.03
218	378.55	109	4.064865	4.968571	6.245614	109	10.36	0.06	-3.49	-7.02
220	378.55	110	4.091892	4.925714	6.274854	110	10.36	0.08	-3.46	-7
222	378.55	111	4.091892	4.94	6.274854	111	10.37	0.09	-3.47	-7
224	378.54	112	4.051351	4.94	6.304094	112	10.38	0.14	-3.43	-6.97
226	378.54	113	4.078378	4.982857	6.347953	113	10.38	0.13	-3.45	-6.97
228	378.53	114	4.091892	4.954286	6.333333	114	10.38	0.17	-3.42	-6.95
230	378.53	115	4.254054	4.954286	6.347953	115	10.38	0.17	-3.43	-6.95
232	378.53	116	4.254054	4.954286	6.362573	116	10.39	0.19	-3.43	-6.94
234	378.52	117	4.254054	4.925714	6.318713	117	10.39	0.22	-3.4	-6.92
236	378.52	118	4.254054	4.954286	6.333333	118	10.39	0.22	-3.42	-6.92
238	378.52	119	4.254054	4.925714	6.347953	119	10.4	0.26	-3.39	-6.9
240	378.53	120	4.051351	4.94	6.347953	120	10.41	0.26	-3.4	-6.89
242	378.53	121	4.254054	4.954286	6.333333	121	10.41	0.29	-3.39	-6.88
244	378.52	122	4.254054	4.94	6.377193	122	10.41	0.29	-3.38	-6.87
246	378.56	123	4.064865	4.968571	6.391813	123	10.41	0.31	-3.39	-6.86
248	378.51	124	4.254054	4.94	6.391813	124	10.42	0.34	-3.35	-6.85
250	378.51	125	4.254054	4.954286	6.362573	125	10.42	0.34	-3.37	-6.85
252	378.51	126	4.254054	4.982857	6.391813	126	10.43	0.37	-3.33	-6.82
254	378.52	127	4.254054	4.954286	6.406433	127	10.42	0.37	-3.37	-6.83
256	378.5	128	4.254054	4.925714	6.421053	128	10.43	0.39	-3.33	-6.81
258	378.51	129	4.254054	4.94	6.421053	129	10.43	0.41	-3.34	-6.8
260	378.5	130	4.254054	4.997143	6.464912	130	10.44	0.42	-3.32	-6.79
262	378.54	131	4.064865	4.968571	6.450292	131	10.44	0.44	-3.33	-6.78
264	378.51	132	4.254054	4.982857	6.435673	132	10.45	0.47	-3.29	-6.75
266	378.49	133	4.254054	4.982857	6.435673	133	10.45	0.47	-3.31	-6.76
268	378.5	134	4.254054	4.982857	6.479532	134	10.45	0.5	-3.29	-6.74
270	378.48	135	4.254054	5.025714	6.479532	135	10.46	0.5	-3.29	-6.73
272	378.48	136	4.037838	5.04	6.479532	136	10.46	0.51	-3.3	-6.73
274	378.49	137	4.254054	4.997143	6.538012	137	10.46	0.54	-3.25	-6.71
276	378.48	138	4.254054	4.94	6.508772	138	10.46	0.54	-3.28	-6.71
278	378.52	139	4.254054	4.982857	6.508772	139	10.47	0.57	-3.25	-6.69
280	378.48	140	4.254054	4.968571	6.464912	140	10.47	0.56	-3.27	-6.7
282	378.47	141	4.254054	4.982857	6.479532	141	10.47	0.59	-3.26	-6.68
284	378.48	142	4.254054	4.968571	6.494152	142	10.48	0.6	-3.24	-6.67
286	378.47	143	4.254054	5.011429	6.523392	143	10.49	0.61	-3.24	-6.66
288	378.46	144	4.254054	4.997143	6.538012	144	10.49	0.65	-3.21	-6.64
290	378.47	145	4.254054	4.997143	6.552632	145	10.5	0.64	-3.22	-6.64
292	378.47	146	4.254054	4.982857	6.538012	146	10.5	0.68	-3.2	-6.62
294	378.51	147	4.254054	4.968571	6.508772	147	10.5	0.67	-3.2	-6.62
296	378.47	148	4.254054	4.982857	6.523392	148	10.52	0.7	-3.2	-6.6

298	378.46	149	4.254054	4.997143	6.552632	149	10.52	0.72	-3.16	-6.59
300	378.46	150	4.254054	5.054286	6.538012	150	10.52	0.72	-3.18	-6.59
302	378.45	151	4.254054	4.997143	6.581871	151	10.51	0.74	-3.16	-6.57
304	378.45	152	4.254054	4.954286	6.581871	152	10.51	0.73	-3.17	-6.58
306	378.45	153	4.254054	4.954286	6.567251	153	10.52	0.76	-3.17	-6.56
308	378.44	154	4.254054	4.997143	6.581871	154	10.52	0.77	-3.15	-6.55
310	378.46	155	4.254054	5.054286	6.538012	155	10.52	0.77	-3.17	-6.55
312	378.45	156	4.254054	5.082857	6.538012	156	10.53	0.8	-3.13	-6.53
314	378.44	157	4.254054	5.04	6.538012	157	10.53	0.79	-3.16	-6.53
316	378.45	158	4.254054	5.04	6.567251	158	10.53	0.82	-3.12	-6.52
318	378.43	159	4.254054	5.025714	6.581871	159	10.53	0.81	-3.15	-6.53
320	378.48	160	4.254054	5.025714	6.596491	160	10.54	0.84	-3.12	-6.5
322	378.44	161	4.254054	5.025714	6.567251	161	10.54	0.84	-3.12	-6.5
324	378.43	162	4.254054	5.054286	6.611111	162	10.55	0.85	-3.13	-6.49
326	378.43	163	4.254054	5.04	6.611111	163	10.55	0.88	-3.09	-6.47
328	378.43	164	4.254054	5.04	6.567251	164	10.55	0.87	-3.12	-6.48
330	378.43	165	4.254054	5.04	6.611111	165	10.56	0.9	-3.09	-6.46
332	378.43	166	4.254054	5.04	6.640351	166	10.55	0.89	-3.1	-6.47
334	378.42	167	4.254054	5.025714	6.611111	167	10.56	0.91	-3.1	-6.45
336	378.41	168	4.254054	5.054286	6.596491	168	10.57	0.94	-3.06	-6.43
338	378.42	169	4.254054	5.054286	6.596491	169	10.57	0.93	-3.08	-6.43
340	378.42	170	4.254054	5.068571	6.640351	170	10.57	0.96	-3.06	-6.41
342	378.43	171	4.254054	5.068571	6.640351	171	10.58	0.95	-3.07	-6.42
344	378.42	172	4.254054	5.054286	6.654971	172	10.57	0.96	-3.08	-6.42
346	378.41	173	4.254054	5.04	6.640351	173	10.57	0.97	-3.05	-6.4
348	378.4	174	4.254054	5.054286	6.640351	174	10.57	0.98	-3.06	-6.4
350	378.45	175	4.254054	5.011429	6.654971	175	10.58	0.99	-3.04	-6.39
352	378.4	176	4.254054	4.997143	6.669591	176	10.58	1	-3.05	-6.38
354	378.41	177	4.254054	5.025714	6.684211	177	10.58	1	-3.04	-6.38
356	378.4	178	4.254054	5.054286	6.684211	178	10.58	1.02	-3.03	-6.37
358	378.4	179	4.254054	5.025714	6.684211	179	10.59	1.02	-3.03	-6.37
360	378.39	180	4.254054	4.982857	6.640351	180	10.59	1.04	-3.02	-6.36
362	378.45	181	4.254054	5.011429	6.654971	181	10.59	1.04	-3.03	-6.36
364	378.4	182	4.254054	5.04	6.69883	182	10.6	1.07	-3.01	-6.34
366	378.41	183	4.254054	5.054286	6.69883	183	10.59	1.05	-3.02	-6.35
368	378.38	184	4.254054	5.068571	6.72807	184	10.61	1.09	-2.99	-6.32
370	378.38	185	4.254054	5.068571	6.69883	185	10.61	1.08	-3.01	-6.32
372	378.39	186	4.254054	5.025714	6.69883	186	10.61	1.11	-2.98	-6.31
374	378.39	187	4.254054	5.011429	6.71345	187	10.61	1.1	-3	-6.32
376	378.39	188	4.254054	5.097143	6.69883	188	10.61	1.12	-2.98	-6.3
378	378.38	189	4.254054	5.068571	6.74269	189	10.61	1.12	-2.99	-6.3
380	378.44	190	4.254054	5.068571	6.74269	190	10.62	1.14	-2.96	-6.28
382	378.43	191	4.254054	5.054286	6.71345	191	10.63	1.15	-2.97	-6.27
384	378.38	192	4.254054	5.04	6.684211	192	10.64	1.16	-2.95	-6.26
386	378.37	193	4.254054	5.054286	6.74269	193	10.64	1.17	-2.96	-6.25

388	378.38	194	4.254054	5.025714	6.77193	194	10.64	1.17	-2.96	-6.25
390	378.37	195	4.254054	5.068571	6.74269	195	10.64	1.19	-2.94	-6.24
392	378.36	196	4.254054	5.04	6.78655	196	10.65	1.18	-2.95	-6.24
394	378.38	197	4.254054	5.111429	6.77193	197	10.65	1.21	-2.93	-6.22
396	378.36	198	4.254054	5.097143	6.71345	198	10.65	1.2	-2.94	-6.23
398	378.4	199	4.254054	5.097143	6.72807	199	10.65	1.22	-2.93	-6.22
400	378.39	200	4.254054	5.082857	6.71345	200	10.65	1.21	-2.94	-6.22
402	378.37	201	4.254054	5.125714	6.74269	201	10.66	1.24	-2.91	-6.2
404	378.37	202	4.254054	5.082857	6.78655	202	10.66	1.23	-2.93	-6.21
406	378.37	203	4.254054	5.082857	6.77193	203	10.66	1.25	-2.92	-6.2
408	378.37	204	4.254054	5.068571	6.74269	204	10.66	1.24	-2.92	-6.19
410	378.37	205	4.254054	5.082857	6.78655	205	10.67	1.26	-2.92	-6.18
412	378.36	206	4.254054	5.125714	6.77193	206	10.67	1.27	-2.89	-6.17
414	378.35	207	4.254054	5.111429	6.80117	207	10.66	1.27	-2.91	-6.17
416	378.35	208	4.254054	5.14	6.75731	208	10.67	1.27	-2.9	-6.17
418	378.35	209	4.254054	5.097143	6.80117	209	10.67	1.29	-2.9	-6.16
420	378.37	210	4.254054	5.082857	6.77193	210	10.68	1.29	-2.89	-6.15
422	378.34	211	4.254054	5.097143	6.72807	211	10.67	1.31	-2.88	-6.14
424	378.35	212	4.254054	5.125714	6.75731	212	10.68	1.31	-2.88	-6.14
426	378.36	213	4.254054	5.125714	6.77193	213	10.69	1.33	-2.88	-6.13
428	378.34	214	4.254054	5.111429	6.71345	214	10.69	1.33	-2.86	-6.12
430	378.36	215	4.254054	5.068571	6.72807	215	10.69	1.34	-2.87	-6.12
432	378.36	216	4.254054	5.068571	6.77193	216	10.69	1.36	-2.85	-6.1
434	378.35	217	4.254054	5.097143	6.815789	217	10.69	1.35	-2.87	-6.12
436	378.33	218	4.254054	5.125714	6.80117	218	10.69	1.37	-2.85	-6.1
438	378.33	219	4.254054	5.14	6.80117	219	10.69	1.36	-2.86	-6.11
440	378.33	220	4.254054	5.125714	6.80117	220	10.7	1.37	-2.86	-6.09
442	378.34	221	4.254054	5.097143	6.80117	221	10.71	1.4	-2.81	-6.07
444	378.34	222	4.254054	5.111429	6.78655	222	10.71	1.39	-2.84	-6.08
446	378.34	223	4.254054	5.125714	6.815789	223	10.71	1.41	-2.82	-6.07
448	378.34	224	4.254054	5.097143	6.78655	224	10.71	1.4	-2.83	-6.07
450	378.32	225	4.254054	5.068571	6.77193	225	10.72	1.41	-2.84	-6.06
452	378.34	226	4.254054	5.111429	6.80117	226	10.72	1.43	-2.8	-6.05
454	378.45	227	4.254054	5.097143	6.830409	227	10.73	1.42	-2.82	-6.05
456	378.34	228	4.254054	5.068571	6.80117	228	10.73	1.45	-2.8	-6.04
458	378.32	229	4.254054	5.125714	6.80117	229	10.73	1.43	-2.82	-6.04
460	378.33	230	4.254054	5.125714	6.80117	230	10.73	1.45	-2.79	-6.03
462	378.34	231	4.254054	5.125714	6.80117	231	10.74	1.45	-2.81	-6.03
464	378.32	232	4.254054	5.125714	6.80117	232	10.74	1.47	-2.78	-6.01
466	378.37	233	4.254054	5.154286	6.830409	233	10.74	1.47	-2.8	-6.02
468	378.32	234	4.254054	5.125714	6.80117	234	10.74	1.47	-2.79	-6.01
470	378.32	235	4.254054	5.125714	6.815789	235	10.74	1.49	-2.79	-6.01
472	378.3	236	4.254054	5.111429	6.80117	236	10.74	1.48	-2.78	-6.01
474	378.32	237	4.254054	5.14	6.815789	237	10.74	1.49	-2.8	-6
		238	4.254054	5.111429	6.888889	238	10.75	1.51	-2.76	-5.98

239	4.254054	5.14	6.845029	239	10.75	1.5	-2.79	-5.99
240	4.254054	5.111429	6.830409	240	10.75	1.52	-2.75	-5.98
241	4.254054	5.125714	6.77193	241	10.76	1.51	-2.77	-5.98
242	4.254054	5.125714	6.74269	242	10.76	1.54	-2.75	-5.96
243	4.254054	5.125714	6.77193	243	10.76	1.52	-2.76	-5.97
244	4.254054	5.125714	6.78655	244	10.76	1.54	-2.76	-5.96
245	4.254054	5.154286	6.77193	245	10.77	1.54	-2.75	-5.95
246	4.254054	5.111429	6.80117	246	10.76	1.54	-2.77	-5.96
247	4.254054	5.125714	6.830409	247	10.76	1.56	-2.74	-5.95
248	4.254054	5.14	6.815789	248	10.76	1.55	-2.77	-5.95
249	4.254054	5.097143	6.830409	249	10.77	1.58	-2.73	-5.93
250	4.254054	5.14	6.874269	250	10.78	1.57	-2.75	-5.93
251	4.254054	5.125714	6.903509	251	10.78	1.59	-2.72	-5.92
252	4.254054	5.14	6.888889	252	10.78	1.59	-2.74	-5.92
253	4.254054	5.14	6.888889	253	10.79	1.6	-2.71	-5.91
254	4.254054	5.125714	6.888889	254	10.79	1.61	-2.72	-5.9
255	4.254054	5.168571	6.888889	255	10.79	1.61	-2.71	-5.9
256	4.254054	5.168571	6.888889	256	10.79	1.63	-2.7	-5.89
257	4.254054	5.168571	6.888889	257	10.79	1.61	-2.71	-5.9
258	4.254054	5.125714	6.903509	258	10.79	1.63	-2.7	-5.89
259	4.254054	5.068571	6.903509	259	10.8	1.63	-2.7	-5.89
260	4.254054	5.111429	6.903509	260	10.8	1.64	-2.71	-5.88
261	4.254054	5.125714	6.874269	261	10.81	1.65	-2.68	-5.87
262	4.254054	5.14	6.859649	262	10.81	1.64	-2.71	-5.87
263	4.254054	5.154286	6.888889	263	10.81	1.67	-2.68	-5.86
264	4.254054	5.168571	6.918129	264	10.82	1.66	-2.69	-5.86
265	4.254054	5.182857	6.947368	265	10.82	1.68	-2.67	-5.84
266	4.254054	5.125714	6.932749	266	10.82	1.67	-2.68	-5.85
267	4.254054	5.14	6.918129	267	10.82	1.68	-2.68	-5.84
268	4.254054	5.154286	6.918129	268	10.81	1.68	-2.67	-5.85
269	4.254054	5.125714	6.932749	269	10.82	1.68	-2.69	-5.85
270	4.254054	5.154286	6.888889	270	10.82	1.7	-2.66	-5.83
271	4.254054	5.125714	6.903509	271	10.82	1.69	-2.68	-5.84
272	4.254054	5.14	6.961988	272	10.83	1.72	-2.65	-5.82
273	4.254054	5.14	6.932749	273	10.83	1.7	-2.66	-5.83
274	4.254054	5.125714	6.888889	274	10.83	1.71	-2.67	-5.82
275	4.254054	5.14	6.903509	275	10.83	1.72	-2.65	-5.82
276	4.254054	5.14	6.947368	276	10.83	1.73	-2.66	-5.81
277	4.254054	5.154286	6.961988	277	10.84	1.73	-2.63	-5.81
278	4.254054	5.125714	6.947368	278	10.84	1.73	-2.66	-5.81
279	4.254054	5.125714	6.903509	279	10.85	1.76	-2.63	-5.79
280	4.254054	5.068571	6.961988	280	10.85	1.74	-2.64	-5.79
281	4.254054	5.125714	6.932749	281	10.85	1.76	-2.63	-5.78
282	4.254054	5.097143	6.888889	282	10.86	1.76	-2.62	-5.78
283	4.254054	5.111429	6.903509	283	10.85	1.76	-2.64	-5.78

284	4.254054	5.082857	6.903509	284	10.86	1.78	-2.61	-5.77
285	4.254054	5.125714	6.918129	285	10.85	1.76	-2.64	-5.79
286	4.254054	5.168571	6.903509	286	10.85	1.78	-2.62	-5.77
287	4.254054	5.125714	6.932749	287	10.85	1.77	-2.63	-5.77
288	4.254054	5.111429	6.932749	288	10.86	1.79	-2.61	-5.76
289	4.254054	5.125714	6.947368	289	10.86	1.77	-2.63	-5.77
290	4.254054	5.111429	6.947368	290	10.86	1.81	-2.6	-5.74
291	4.254054	5.125714	6.947368	291	10.86	1.79	-2.62	-5.75
292	4.254054	5.168571	6.961988	292	10.87	1.81	-2.61	-5.74
293	4.254054	5.168571	6.947368	293	10.86	1.8	-2.6	-5.75
294	4.254054	5.168571	6.918129	294	10.87	1.8	-2.62	-5.74
295	4.254054	5.154286	6.976608	295	10.87	1.83	-2.58	-5.73
296	4.254054	5.154286	6.991228	296	10.87	1.82	-2.6	-5.73
297	4.254054	5.125714	6.991228	297	10.87	1.84	-2.59	-5.72
298	4.254054	5.125714	6.976608	298	10.87	1.82	-2.6	-5.73
299	4.254054	5.14	6.947368	299	10.87	1.83	-2.6	-5.72
300	4.254054	5.14	6.932749	300	10.87	1.84	-2.58	-5.72
301	4.254054	5.068571	6.976608	301	10.88	1.84	-2.6	-5.72
302	4.254054	5.04	6.976608	302	10.89	1.87	-2.56	-5.7
303	4.254054	5.182857	6.991228	303	10.9	1.85	-2.57	-5.7
304	4.254054	5.168571	6.947368	304	10.89	1.87	-2.56	-5.69
305	4.254054	5.125714	6.932749	305	10.89	1.85	-2.58	-5.7
306	4.254054	5.154286	6.947368	306	10.89	1.86	-2.59	-5.7
307	4.254054	5.182857	6.976608	307	10.9	1.88	-2.55	-5.68
308	4.254054	5.154286	7.005848	308	10.9	1.88	-2.57	-5.68
309	4.254054	5.182857	6.976608	309	10.9	1.88	-2.55	-5.68
310	4.254054	5.025714	6.991228	310	10.9	1.88	-2.57	-5.68
311	4.254054	5.168571	7.005848	311	10.91	1.88	-2.56	-5.67
312	4.254054	5.154286	6.976608	312	10.91	1.9	-2.55	-5.67
313	4.254054	5.154286	7.005848	313	10.91	1.89	-2.55	-5.67
314	4.254054	5.111429	7.005848	314	10.92	1.93	-2.53	-5.65
315	4.254054	5.125714	6.961988	315	10.92	1.91	-2.55	-5.66
316	4.254054	5.168571	6.976608	316	10.92	1.93	-2.53	-5.64
317	4.254054	5.154286	6.991228	317	10.92	1.91	-2.54	-5.65
318	4.254054	5.154286	7.020468	318	10.92	1.93	-2.54	-5.64
319	4.254054	5.011429	7.035088	319	10.93	1.93	-2.52	-5.64
320	4.254054	5.182857	7.020468	320	10.93	1.93	-2.55	-5.64
321	4.254054	5.025714	7.005848	321	10.93	1.95	-2.51	-5.62
322	4.254054	5.197143	7.005848	322	10.93	1.93	-2.54	-5.64
323	4.254054	5.211429	7.005848	323	10.92	1.95	-2.53	-5.63
324	4.254054	5.168571	7.005848	324	10.93	1.93	-2.53	-5.64
325	4.254054	5.125714	7.035088	325	10.93	1.94	-2.54	-5.63
326	4.254054	5.168571	7.035088	326	10.93	1.96	-2.51	-5.62
327	4.254054	5.182857	7.005848	327	10.94	1.95	-2.53	-5.62
328	4.254054	5.154286	7.049708	328	10.94	1.97	-2.5	-5.61

329	4.254054	5.025714	7.035088	329	10.94	1.97	-2.52	-5.61
330	4.254054	5.04	7.005848	330	10.94	1.97	-2.5	-5.61
331	4.254054	5.168571	7.005848	331	10.94	1.98	-2.51	-5.6
332	4.254054	5.182857	7.020468	332	10.95	1.98	-2.5	-5.6
333	4.254054	5.168571	7.020468	333	10.95	1.98	-2.52	-5.6
334	4.254054	5.04	7.005848	334	10.95	2	-2.48	-5.58
335	4.254054	5.097143	7.020468	335	10.96	1.99	-2.51	-5.59
336	4.254054	5.154286	6.991228	336	10.96	2.01	-2.47	-5.58
337	4.254054	5.168571	7.005848	337	10.97	2.01	-2.5	-5.58
338	4.254054	5.182857	7.005848	338	10.97	2.02	-2.47	-5.57
339	4.254054	5.182857	7.035088	339	10.97	2.02	-2.48	-5.57
340	4.254054	5.182857	7.020468	340	10.96	2.01	-2.48	-5.58
341	4.254054	5.082857	7.005848	341	10.96	2.02	-2.49	-5.57
342	4.254054	5.04	7.020468	342	10.96	2.01	-2.49	-5.58
343	4.254054	5.054286	7.049708	343	10.96	2.01	-2.51	-5.58
344	4.254054	5.154286	7.078947	344	10.96	2.03	-2.47	-5.57
345	4.254054	5.011429	7.064327	345	10.96	2.01	-2.5	-5.57
346	4.254054	5.054286	7.049708	346	10.96	2.04	-2.48	-5.55
347	4.254054	5.168571	7.035088	347	10.97	2.03	-2.48	-5.56
348	4.254054	5.068571	7.064327	348	10.97	2.04	-2.48	-5.55
349	4.254054	5.211429	7.093567	349	10.97	2.04	-2.47	-5.55
350	4.254054	5.054286	7.035088	350	10.98	2.04	-2.49	-5.55
351	4.254054	5.254286	7.064327	351	10.98	2.06	-2.45	-5.53
352	4.254054	5.211429	7.078947	352	10.98	2.04	-2.47	-5.54
353	4.254054	5.182857	7.035088	353	10.98	2.06	-2.46	-5.53
354	4.254054	5.168571	7.049708	354	10.98	2.05	-2.47	-5.54
355	4.254054	5.182857	7.049708	355	10.98	2.05	-2.48	-5.54
356	4.254054	5.182857	7.078947	356	10.99	2.08	-2.43	-5.52
357	4.254054	5.168571	7.108187	357	11	2.07	-2.46	-5.52
358	4.254054	5.197143	7.078947	358	10.99	2.09	-2.44	-5.51
359	4.254054	4.925714	7.020468	359	11	2.07	-2.45	-5.52
360	4.254054	5.04	7.020468	360	11	2.09	-2.45	-5.51
361	4.254054	5.068571	7.035088	361	11	2.09	-2.43	-5.51
362	4.254054	5.025714	7.078947	362	11	2.08	-2.46	-5.52
363	4.254054	5.011429	7.064327	363	11.01	2.11	-2.42	-5.5
364	4.254054	5.225714	7.078947	364	11	2.09	-2.45	-5.51
365	4.254054	5.04	7.035088	365	11.01	2.12	-2.43	-5.49
366	4.254054	5.04	7.020468	366	11.01	2.1	-2.43	-5.5
367	4.254054	4.925714	7.020468	367	11.01	2.1	-2.45	-5.5
368	4.254054	5.011429	7.049708	368	11.02	2.13	-2.41	-5.48
369	4.254054	5.011429	7.035088	369	11.02	2.11	-2.44	-5.49
370	4.254054	5.197143	7.035088	370	11.02	2.12	-2.41	-5.48
371	4.254054	5.011429	7.049708	371	11.02	2.12	-2.43	-5.48
372	4.254054	5.04	7.078947	372	11.02	2.13	-2.4	-5.48
373	4.254054	5.197143	7.064327	373	11.03	2.14	-2.42	-5.47

374	4.254054	5.197143	7.078947	374	11.03	2.14	-2.4	-5.46
375	4.254054	5.011429	7.093567	375	11.03	2.15	-2.41	-5.46
376	4.254054	5.011429	7.093567	376	11.03	2.14	-2.41	-5.47
377	4.254054	5.04	7.093567	377	11.03	2.15	-2.4	-5.46
378	4.254054	5.182857	7.093567	378	11.03	2.14	-2.41	-5.46
379	4.254054	5.168571	7.108187	379	11.03	2.16	-2.4	-5.45
380	4.254054	4.997143	7.093567	380	11.03	2.14	-2.41	-5.46
381	4.254054	4.94	7.064327	381	11.04	2.17	-2.39	-5.45
382	4.254054	5.04	7.049708	382	11.04	2.15	-2.41	-5.46
383	4.254054	5.254286	7.049708	383	11.04	2.18	-2.38	-5.44
384	4.254054	5.225714	7.078947	384	11.04	2.16	-2.41	-5.45
385	4.254054	5.211429	7.064327	385	11.05	2.19	-2.37	-5.43
386	4.254054	5.225714	7.049708	386	11.04	2.16	-2.41	-5.45
387	4.254054	5.197143	7.049708	387	11.04	2.18	-2.37	-5.44
388	4.254054	5.04	7.078947	388	11.04	2.17	-2.4	-5.44
389	4.254054	5.125714	7.064327	389	11.04	2.19	-2.37	-5.43
390	4.254054	5.054286	7.064327	390	11.05	2.19	-2.39	-5.43
391	4.254054	5.054286	7.064327	391	11.05	2.18	-2.38	-5.43
392	4.254054	5.211429	7.093567	392	11.04	2.19	-2.38	-5.43
393	4.254054	5.011429	7.064327	393	11.05	2.18	-2.39	-5.43
394	4.254054	5.068571	7.078947	394	11.05	2.2	-2.37	-5.42
395	4.254054	5.04	7.078947	395	11.06	2.2	-2.37	-5.42
396	4.254054	5.04	7.093567	396	11.05	2.2	-2.39	-5.42
397	4.254054	5.011429	7.093567	397	11.05	2.21	-2.36	-5.42
398	4.254054	5.082857	7.108187	398	11.05	2.2	-2.39	-5.42
399	4.254054	5.182857	7.108187	399	11.05	2.22	-2.36	-5.41
400	4.254054	5.197143	7.093567	400	11.06	2.2	-2.38	-5.41
401	4.254054	4.997143	7.122807	401	11.07	2.23	-2.35	-5.4
402	4.254054	5.04	7.093567	402	11.07	2.22	-2.36	-5.4
403	4.254054	4.997143	7.049708	403	11.06	2.22	-2.38	-5.41
404	4.254054	5.054286	7.049708	404	11.07	2.22	-2.35	-5.4
405	4.254054	4.968571	7.064327	405	11.07	2.23	-2.36	-5.4
406	4.254054	5.068571	7.078947	406	11.07	2.23	-2.36	-5.4
407	4.254054	5.04	7.078947	407	11.08	2.25	-2.35	-5.38
408	4.254054	4.968571	7.093567	408	11.08	2.24	-2.35	-5.39
409	4.254054	5.197143	7.122807	409	11.08	2.25	-2.34	-5.38
410	4.254054	5.068571	7.122807	410	11.08	2.24	-2.35	-5.38
411	4.254054	5.025714	7.137427	411	11.07	2.25	-2.36	-5.38
412	4.254054	5.025714	7.137427	412	11.07	2.24	-2.35	-5.39
413	4.254054	4.997143	7.108187	413	11.07	2.23	-2.38	-5.39
414	4.254054	5.068571	7.152047	414	11.07	2.25	-2.34	-5.38
415	4.254054	4.954286	7.166667	415	11.07	2.23	-2.37	-5.39
416	4.254054	5.054286	7.122807	416	11.08	2.26	-2.35	-5.37
417	4.254054	5.054286	7.078947	417	11.09	2.25	-2.35	-5.37
418	4.254054	5.197143	7.064327	418	11.09	2.27	-2.34	-5.36

419	4.254054	5.197143	7.093567	419	11.09	2.27	-2.33	-5.36
420	4.254054	4.954286	7.122807	420	11.08	2.27	-2.34	-5.36
421	4.254054	5.225714	7.093567	421	11.08	2.26	-2.34	-5.37
422	4.254054	5.254286	7.078947	422	11.08	2.27	-2.34	-5.36
423	4.254054	5.254286	7.108187	423	11.09	2.26	-2.34	-5.36
424	4.254054	5.254286	7.152047	424	11.1	2.29	-2.32	-5.34
425	4.254054	5.04	7.122807	425	11.1	2.27	-2.34	-5.35
426	4.254054	5.197143	7.108187	426	11.1	2.29	-2.31	-5.34
427	4.254054	5.197143	7.108187	427	11.1	2.28	-2.34	-5.35
428	4.254054	5.197143	7.108187	428	11.1	2.3	-2.31	-5.34
429	4.254054	5.211429	7.122807	429	11.1	2.28	-2.33	-5.35
430	4.254054	5.211429	7.093567	430	11.1	2.3	-2.31	-5.33
431	4.254054	4.982857	7.093567	431	11.11	2.29	-2.32	-5.34
432	4.254054	5.068571	7.108187	432	11.11	2.31	-2.32	-5.33
433	4.254054	5.025714	7.122807	433	11.11	2.3	-2.31	-5.34
434	4.254054	5.04	7.093567	434	11.11	2.3	-2.34	-5.33
435	4.254054	4.968571	7.093567	435	11.12	2.32	-2.29	-5.32
436	4.254054	5.054286	7.093567	436	11.12	2.32	-2.31	-5.32
437	4.254054	5.225714	7.108187	437	11.12	2.31	-2.3	-5.32
438	4.240541	5.068571	7.122807	438	11.11	2.32	-2.31	-5.32
439	4.254054	4.997143	7.137427	439	11.11	2.31	-2.3	-5.32
440	4.240541	5.054286	7.108187	440	11.12	2.31	-2.32	-5.32
441	4.254054	5.254286	7.108187	441	11.11	2.32	-2.29	-5.32
442	4.254054	5.254286	7.122807	442	11.12	2.31	-2.32	-5.32
443	4.254054	5.254286	7.108187	443	11.12	2.34	-2.29	-5.3
444	4.254054	5.082857	7.137427	444	11.12	2.32	-2.31	-5.32
445	4.254054	4.997143	7.137427	445	11.12	2.33	-2.31	-5.31
446	4.240541	5.254286	7.137427	446	11.12	2.33	-2.29	-5.31
447	4.254054	5.254286	7.137427	447	11.12	2.33	-2.32	-5.31
448	4.240541	5.254286	7.137427	448	11.13	2.35	-2.28	-5.3
449	4.254054	5.254286	7.152047	449	11.13	2.33	-2.3	-5.31
450	4.254054	5.054286	7.166667	450	11.12	2.35	-2.3	-5.3
451	4.254054	5.097143	7.195906	451	11.12	2.33	-2.3	-5.31
452	4.254054	5.082857	7.195906	452	11.13	2.34	-2.31	-5.3
453	4.254054	5.24	7.166667	453	11.13	2.36	-2.27	-5.29
454	4.254054	5.054286	7.152047	454	11.13	2.34	-2.3	-5.31
455	4.254054	5.068571	7.122807	455	11.14	2.37	-2.27	-5.29
456	4.254054	5.211429	7.181287	456	11.15	2.36	-2.28	-5.29
457	4.254054	4.997143	7.166667	457	11.15	2.38	-2.28	-5.28
458	4.254054	5.082857	7.181287	458	11.15	2.37	-2.26	-5.28
459	4.254054	5.097143	7.195906	459	11.15	2.36	-2.29	-5.29
460	4.254054	5.254286	7.152047	460	11.14	2.38	-2.26	-5.28
461	4.254054	5.054286	7.166667	461	11.15	2.37	-2.28	-5.28
462	4.254054	4.911429	7.152047	462	11.15	2.39	-2.26	-5.27
463	4.254054	5.025714	7.152047	463	11.15	2.38	-2.27	-5.28

464	4.254054	5.054286	7.137427	464	11.16	2.39	-2.27	-5.27
465	4.254054	4.954286	7.122807	465	11.16	2.39	-2.25	-5.27
466	4.254054	5.04	7.137427	466	11.16	2.39	-2.27	-5.27
467	4.254054	5.025714	7.137427	467	11.17	2.41	-2.24	-5.25
468	4.254054	5.068571	7.122807	468	11.16	2.39	-2.26	-5.27
469	4.254054	5.254286	7.108187	469	11.16	2.41	-2.25	-5.26
470	4.254054	5.254286	7.108187	470	11.17	2.4	-2.25	-5.26
471	4.254054	5.254286	7.137427	471	11.17	2.4	-2.27	-5.26
472	4.254054	4.968571	7.152047	472	11.17	2.42	-2.23	-5.25
473	4.254054	5.254286	7.108187	473	11.17	2.4	-2.26	-5.26
474	4.254054	5.254286	7.137427	474	11.18	2.43	-2.23	-5.25
475	4.254054	5.254286	7.137427	475	11.17	2.4	-2.25	-5.26

Control_exp_3

Experiment type: Control experiment. This experiment consisted of just an empty petridish.

There was not a humidity buffer inside the chamber. Chiller was set to - 17°C. Temperature around the sample was controlled by the chiller.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= humidity buffer 3= atmosphere 4= sample

Mass		RH				T				
Min.	Mass	Min.	Ch02	Ch03	Ch04	Min.	Ch01	Ch02	Ch03	Ch04
0	245.34	0	11.05676	14.46	18.47661	0	18.69	-2.97	-3.17	-10.9
2	245.14	1	11.52973	15.50286	17.35088	1	18.69	-3.79	-3.31	-10.74
4	244.63	2	11.92162	17.28857	15.88889	2	15.59	-6.16	-5.82	-11.63
6	244.55	3	12.27297	18.14571	14.9386	3	13.09	-7.02	-9.48	-13.7
8	244.56	4	12.70541	16.88857	14.6462	4	11.99	-6.68	-9.26	-12.39
10	244.6	5	12.81351	14.94571	14.44152	5	11.38	-5.79	-9.34	-11.31
12	244.6	6	12.07027	13.37429	13.66667	6	10.96	-5.13	-8.94	-10.92
14	244.59	7	10.38108	12.26	12.0731	7	10.67	-4.32	-8.44	-10.53
16	244.61	8	8.354054	11.06	10.04094	8	10.47	-3.84	-7.72	-10.08
18	244.6	9	6.678378	9.531429	8.140351	9	10.32	-3.56	-6.91	-9.67
20	244.59	10	5.3	7.96	6.517544	10	10.21	-3.37	-6.3	-9.41
22	244.59	11	4.137838	6.431429	5.143275	11	10.14	-3.2	-5.95	-9.18
24	244.59	12	3.218919	5.117143	3.959064	12	10.08	-3.06	-5.72	-9.05
26	244.59	13	2.475676	4.102857	2.935673	13	10.04	-2.92	-5.56	-8.94
28	244.59	14	1.813514	3.26	2.131579	14	10.01	-2.8	-5.47	-8.85

30	244.59	15	1.272973	2.545714	1.444444	15	9.99	-2.68	-5.4	-8.77
32	244.59	16	0.827027	1.874286	0.78655	16	9.97	-2.57	-5.34	-8.68
34	244.59	17	0.408108	1.274286	0.216374	17	9.96	-2.47	-5.29	-8.64
36	244.56	18	0.056757	0.774286	0.280702	18	9.94	-2.38	-5.25	-8.59
38	244.6	19	0.267568	0.317143	0.748538	19	9.94	-2.3	-5.21	-8.52
40	244.59	20	0.524324	0.054286	1.128655	20	9.94	-2.22	-5.18	-8.48
42	244.59	21	0.7	0.382857	1.523392	21	9.93	-2.14	-5.16	-8.43
44	244.59	22	0.862162	0.668571	1.830409	22	9.94	-2.09	-5.12	-8.37
46	244.59	23	1.051351	0.925714	2.049708	23	9.94	-2.02	-5.09	-8.33
48	244.6	24	1.240541	1.182857	2.283626	24	9.94	-1.96	-5.06	-8.29
50	244.59	25	1.443243	1.382857	2.502924	25	9.94	-1.89	-5.04	-8.27
52	244.6	26	1.672973	1.582857	2.707602	26	9.95	-1.83	-5.02	-8.23
54	244.6	27	1.848649	1.797143	2.95614	27	9.95	-1.78	-5.01	-8.2
56	244.59	28	1.97027	1.954286	3.146199	28	9.96	-1.72	-4.98	-8.16
58	244.6	29	2.091892	2.125714	3.277778	29	9.96	-1.67	-4.97	-8.13
60	244.61	30	2.227027	2.311429	3.438596	30	9.98	-1.62	-4.95	-8.11
62	244.6	31	2.348649	2.468571	3.570175	31	10	-1.56	-4.92	-8.06
64	244.6	32	2.47027	2.497143	3.701754	32	10	-1.52	-4.91	-8.04
66	244.6	33	2.591892	2.625714	3.818713	33	10	-1.48	-4.9	-8.02
68	244.6	34	2.672973	2.797143	3.950292	34	10	-1.45	-4.89	-7.99
70	244.6	35	2.740541	2.911429	4.081871	35	10	-1.41	-4.87	-7.98
72	244.6	36	2.835135	2.997143	4.154971	36	10.01	-1.37	-4.85	-7.96
74	244.6	37	2.875676	3.082857	4.22807	37	10.02	-1.33	-4.83	-7.92
76	244.6	38	2.889189	3.168571	4.315789	38	10.04	-1.28	-4.8	-7.9
78	244.6	39	2.983784	3.268571	4.432749	39	10.05	-1.24	-4.78	-7.86
80	244.6	40	3.051351	3.325714	4.549708	40	10.05	-1.2	-4.77	-7.84
82	244.6	41	3.105405	3.411429	4.637427	41	10.05	-1.17	-4.75	-7.82
84	244.6	42	3.2	3.497143	4.695906	42	10.06	-1.13	-4.73	-7.79
86	244.6	43	3.227027	3.582857	4.798246	43	10.06	-1.1	-4.71	-7.77
88	244.61	44	3.281081	3.697143	4.856725	44	10.06	-1.07	-4.7	-7.73
90	244.61	45	3.321622	3.782857	4.929825	45	10.08	-1.04	-4.68	-7.71
92	244.61	46	3.362162	3.84	5.032164	46	10.08	-1	-4.66	-7.7
94	244.61	47	3.42973	3.854286	5.119883	47	10.08	-0.97	-4.64	-7.67
96	244.61	48	3.47027	3.897143	5.178363	48	10.09	-0.94	-4.63	-7.65
98	244.62	49	3.483784	3.968571	5.192982	49	10.09	-0.92	-4.62	-7.61
100	244.62	50	3.551351	4.011429	5.251462	50	10.1	-0.88	-4.6	-7.59
102	244.62	51	3.591892	4.068571	5.324561	51	10.11	-0.85	-4.58	-7.57
104	244.62	52	3.645946	4.154286	5.383041	52	10.12	-0.82	-4.56	-7.54
106	244.63	53	3.7	4.225714	5.47076	53	10.12	-0.81	-4.56	-7.53
108	244.64	54	3.727027	4.268571	5.54386	54	10.12	-0.79	-4.55	-7.51
110	244.64	55	3.727027	4.297143	5.646199	55	10.12	-0.76	-4.53	-7.49
112	244.65	56	3.781081	4.325714	5.704678	56	10.12	-0.74	-4.53	-7.47
114	244.65	57	3.794595	4.34	5.690058	57	10.13	-0.72	-4.53	-7.46
116	244.61	58	3.835135	4.368571	5.719298	58	10.13	-0.7	-4.54	-7.43
118	244.62	59	3.848649	4.411429	5.777778	59	10.14	-0.67	-4.54	-7.42

120	244.62	60	3.889189	4.482857	5.836257	60	10.14	-0.65	-4.54	-7.39
122	244.63	61	3.92973	4.497143	5.836257	61	10.14	-0.62	-4.52	-7.36
124	244.63	62	3.943243	4.54	5.865497	62	10.15	-0.6	-4.5	-7.34
126	244.6	63	3.97027	4.497143	5.923977	63	10.15	-0.59	-4.48	-7.32
128	244.6	64	3.97027	4.54	5.953216	64	10.16	-0.57	-4.47	-7.29
130	244.61	65	4.024324	4.568571	5.909357	65	10.16	-0.55	-4.46	-7.27
132	244.61	66	4.024324	4.54	5.923977	66	10.17	-0.52	-4.46	-7.25
134	244.6	67	4.037838	4.625714	5.967836	67	10.17	-0.51	-4.45	-7.24
136	244.6	68	4.051351	4.682857	6.026316	68	10.17	-0.49	-4.44	-7.21
138	244.6	69	4.037838	4.697143	6.084795	69	10.18	-0.47	-4.43	-7.21
140	244.6	70	4.064865	4.654286	6.099415	70	10.18	-0.45	-4.42	-7.18
142	244.61	71	4.091892	4.682857	6.143275	71	10.18	-0.43	-4.41	-7.17
144	244.6	72	4.145946	4.711429	6.172515	72	10.19	-0.41	-4.4	-7.14
146	244.61	73	4.145946	4.697143	6.143275	73	10.19	-0.39	-4.39	-7.12
148	244.6	74	4.132432	4.74	6.172515	74	10.19	-0.38	-4.39	-7.1
150	244.61	75	4.118919	4.797143	6.187135	75	10.19	-0.36	-4.37	-7.08
152	244.6	76	4.118919	4.768571	6.172515	76	10.19	-0.35	-4.37	-7.08
154	244.59	77	4.159459	4.797143	6.172515	77	10.2	-0.33	-4.35	-7.06
156	244.59	78	4.172973	4.811429	6.230994	78	10.2	-0.31	-4.34	-7.04
158	244.59	79	4.2	4.782857	6.260234	79	10.21	-0.29	-4.34	-7.03
160	244.59	80	4.213514	4.825714	6.260234	80	10.2	-0.29	-4.34	-7.02
162	244.59	81	4.213514	4.897143	6.260234	81	10.21	-0.27	-4.33	-6.98
164	244.59	82	4.051351	4.868571	6.289474	82	10.21	-0.25	-4.32	-6.97
166	244.6	83	4.051351	4.854286	6.333333	83	10.21	-0.24	-4.32	-6.97
168	244.6	84	4.037838	4.882857	6.333333	84	10.22	-0.22	-4.3	-6.95
170	244.6	85	4.186486	4.84	6.333333	85	10.22	-0.21	-4.3	-6.94
172	244.6	86	3.956757	4.825714	6.362573	86	10.23	-0.18	-4.29	-6.92
174	244.6	87	4.091892	4.897143	6.421053	87	10.22	-0.18	-4.28	-6.9
176	244.6	88	4.091892	4.94	6.406433	88	10.23	-0.16	-4.27	-6.88
178	244.6	89	3.956757	4.94	6.435673	89	10.23	-0.15	-4.27	-6.86
180	244.6	90	4.091892	4.868571	6.479532	90	10.24	-0.13	-4.26	-6.83
182	244.6	91	4.254054	4.854286	6.508772	91	10.23	-0.12	-4.26	-6.83
184	244.6	92	4.078378	4.882857	6.479532	92	10.23	-0.11	-4.25	-6.82
186	244.6	93	4.064865	4.897143	6.508772	93	10.23	-0.1	-4.25	-6.81
188	244.6	94	4.254054	4.911429	6.567251	94	10.24	-0.08	-4.24	-6.8
190	244.6	95	4.254054	4.94	6.538012	95	10.24	-0.07	-4.23	-6.78
192	244.6	96	4.254054	4.94	6.552632	96	10.24	-0.06	-4.23	-6.77
194	244.59	97	4.254054	4.982857	6.552632	97	10.25	-0.04	-4.22	-6.74
196	244.59	98	4.254054	4.982857	6.596491	98	10.25	-0.03	-4.2	-6.72
198	244.59	99	4.254054	4.954286	6.567251	99	10.25	-0.02	-4.2	-6.72
200	244.6	100	4.254054	4.925714	6.596491	100	10.25	-0.01	-4.2	-6.71
202	244.59	101	4.254054	4.94	6.567251	101	10.26	0.02	-4.19	-6.69
204	244.59	102	4.254054	4.954286	6.567251	102	10.26	0.02	-4.18	-6.68
206	244.6	103	4.254054	4.968571	6.567251	103	10.26	0.04	-4.18	-6.67
208	244.6	104	4.254054	5.011429	6.581871	104	10.26	0.05	-4.17	-6.66

210	244.6	105	4.254054	5.011429	6.567251	105	10.26	0.06	-4.16	-6.64
212	244.6	106	4.254054	4.982857	6.596491	106	10.26	0.07	-4.16	-6.63
214	244.6	107	4.254054	4.982857	6.611111	107	10.27	0.09	-4.15	-6.62
216	244.6	108	4.254054	5.025714	6.654971	108	10.27	0.09	-4.15	-6.6
218	244.6	109	4.254054	5.011429	6.684211	109	10.27	0.11	-4.15	-6.59
220	244.6	110	4.254054	5.04	6.654971	110	10.27	0.12	-4.14	-6.58
222	244.6	111	4.254054	5.082857	6.625731	111	10.28	0.13	-4.13	-6.56
224	244.6	112	4.254054	5.04	6.611111	112	10.28	0.15	-4.12	-6.54
226	244.6	113	4.254054	5.025714	6.625731	113	10.28	0.15	-4.12	-6.53
228	244.6	114	4.254054	5.011429	6.654971	114	10.28	0.16	-4.11	-6.52
230	244.6	115	4.254054	4.997143	6.69883	115	10.28	0.17	-4.1	-6.52
232	244.59	116	4.254054	5.04	6.72807	116	10.29	0.19	-4.1	-6.51
234	244.57	117	4.254054	5.054286	6.815789	117	10.29	0.2	-4.09	-6.5
236	244.57	118	4.254054	5.082857	6.80117	118	10.29	0.2	-4.09	-6.49
238	244.57	119	4.254054	5.082857	6.80117	119	10.29	0.21	-4.09	-6.48
240	244.57	120	4.254054	5.082857	6.78655	120	10.3	0.23	-4.08	-6.45
242	244.57	121	4.254054	5.04	6.77193	121	10.3	0.24	-4.07	-6.44
244	244.58	122	4.254054	5.025714	6.75731	122	10.3	0.25	-4.07	-6.43
246	244.58	123	4.254054	5.082857	6.74269	123	10.31	0.26	-4.05	-6.4
248	244.58	124	4.254054	5.111429	6.77193	124	10.3	0.26	-4.05	-6.41
250	244.58	125	4.254054	5.04	6.78655	125	10.3	0.26	-4.05	-6.4
252	244.58	126	4.254054	5.04	6.80117	126	10.3	0.27	-4.05	-6.4
254	244.58	127	4.254054	5.097143	6.77193	127	10.3	0.29	-4.04	-6.38
256	244.58	128	4.254054	5.097143	6.74269	128	10.31	0.3	-4.04	-6.37
258	244.58	129	4.254054	5.082857	6.71345	129	10.32	0.31	-4.03	-6.36
260	244.58	130	4.254054	5.097143	6.75731	130	10.32	0.32	-4.02	-6.34
262	244.58	131	4.254054	5.111429	6.77193	131	10.33	0.34	-4.02	-6.33
264	244.58	132	4.254054	5.111429	6.77193	132	10.33	0.35	-4.01	-6.33
266	244.58	133	4.254054	5.14	6.78655	133	10.32	0.35	-4.02	-6.33
268	244.58	134	4.254054	5.125714	6.815789	134	10.33	0.36	-4.01	-6.32
270	244.58	135	4.240541	5.14	6.80117	135	10.33	0.37	-4	-6.3
272	244.58	136	4.254054	5.154286	6.80117	136	10.33	0.39	-3.99	-6.28
274	244.58	137	4.254054	5.097143	6.815789	137	10.33	0.39	-3.99	-6.28
276	244.58	138	4.254054	5.111429	6.78655	138	10.34	0.41	-3.98	-6.25
278	244.58	139	4.254054	5.168571	6.815789	139	10.33	0.41	-3.98	-6.24
280	244.58	140	4.254054	5.168571	6.859649	140	10.33	0.42	-3.97	-6.24
282	244.58	141	4.254054	5.125714	6.859649	141	10.34	0.43	-3.97	-6.23
284	244.59	142	4.254054	5.097143	6.888889	142	10.34	0.44	-3.96	-6.22
286	244.59	143	4.254054	5.14	6.903509	143	10.34	0.45	-3.96	-6.22
288	244.59	144	4.254054	5.097143	6.888889	144	10.34	0.45	-3.95	-6.21
290	244.59	145	4.240541	5.125714	6.903509	145	10.35	0.47	-3.94	-6.18
292	244.59	146	4.254054	5.14	6.874269	146	10.35	0.48	-3.94	-6.17
294	244.59	147	4.254054	5.14	6.888889	147	10.35	0.49	-3.93	-6.17
296	244.59	148	4.254054	5.154286	6.903509	148	10.35	0.49	-3.93	-6.16
298	244.59	149	4.240541	5.111429	6.888889	149	10.35	0.5	-3.93	-6.17

300	244.59	150	4.254054	5.111429	6.888889	150	10.36	0.51	-3.92	-6.16
302	244.59	151	4.240541	5.14	6.888889	151	10.36	0.52	-3.92	-6.14
304	244.59	152	4.254054	5.168571	6.888889	152	10.36	0.53	-3.91	-6.15
306	244.59	153	4.254054	5.154286	6.859649	153	10.35	0.53	-3.92	-6.16
308	244.56	154	4.254054	5.154286	6.888889	154	10.35	0.54	-3.92	-6.14
310	244.56	155	4.240541	5.182857	6.888889	155	10.36	0.54	-3.91	-6.11
312	244.56	156	4.254054	4.968571	6.918129	156	10.37	0.56	-3.9	-6.1
314	244.56	157	4.254054	5.04	6.918129	157	10.36	0.56	-3.9	-6.09
316	244.56	158	4.254054	5.225714	6.947368	158	10.36	0.57	-3.9	-6.1
318	244.56	159	4.254054	5.168571	6.947368	159	10.36	0.57	-3.9	-6.08
320	244.56	160	4.254054	5.197143	6.947368	160	10.36	0.58	-3.89	-6.08
322	244.56	161	4.254054	5.197143	6.903509	161	10.37	0.59	-3.88	-6.07
324	244.56	162	4.254054	5.14	6.918129	162	10.37	0.6	-3.88	-6.06
326	244.56	163	4.254054	5.111429	6.961988	163	10.38	0.61	-3.87	-6.05
328	244.56	164	4.254054	5.125714	6.976608	164	10.38	0.61	-3.87	-6.04
330	244.57	165	4.254054	5.14	6.961988	165	10.39	0.63	-3.86	-6.03
332	244.57	166	4.254054	5.182857	6.947368	166	10.38	0.64	-3.86	-6.02
334	244.57	167	4.254054	5.182857	6.961988	167	10.39	0.64	-3.85	-6.01
336	244.57	168	4.254054	5.182857	6.947368	168	10.39	0.65	-3.85	-6
338	244.57	169	4.254054	5.182857	6.976608	169	10.38	0.65	-3.85	-6.01
340	244.57	170	4.254054	5.168571	6.976608	170	10.38	0.65	-3.85	-6.02
342	244.57	171	4.254054	5.182857	7.020468	171	10.38	0.66	-3.85	-6
344	244.57	172	4.254054	5.197143	6.976608	172	10.39	0.67	-3.84	-5.99
346	244.57	173	4.254054	5.168571	6.976608	173	10.39	0.68	-3.84	-5.99
348	244.57	174	4.254054	5.197143	7.020468	174	10.39	0.69	-3.84	-5.99
350	244.57	175	4.240541	5.182857	6.976608	175	10.4	0.7	-3.83	-5.97
352	244.57	176	4.254054	5.197143	6.947368	176	10.4	0.71	-3.83	-5.97
354	244.57	177	4.254054	5.211429	6.961988	177	10.39	0.71	-3.84	-5.96
356	244.57	178	4.254054	5.04	7.005848	178	10.39	0.72	-3.83	-5.94
358	244.57	179	4.254054	5.054286	7.020468	179	10.4	0.73	-3.82	-5.92
360	244.57	180	4.240541	5.211429	6.991228	180	10.41	0.75	-3.82	-5.92
362	244.57	181	4.254054	5.025714	7.005848	181	10.4	0.74	-3.81	-5.92
364	244.57	182	4.254054	5.211429	6.991228	182	10.4	0.75	-3.81	-5.92
366	244.57	183	4.254054	5.054286	7.020468	183	10.41	0.76	-3.8	-5.91
368	244.57	184	4.254054	5.068571	7.020468	184	10.41	0.77	-3.79	-5.91
370	244.57	185	4.254054	4.94	7.035088	185	10.42	0.77	-3.78	-5.9
372	244.57	186	4.254054	5.111429	7.005848	186	10.43	0.79	-3.77	-5.89
374	244.57	187	4.254054	5.197143	6.991228	187	10.42	0.79	-3.77	-5.9
376	244.57	188	4.254054	5.011429	7.005848	188	10.43	0.8	-3.76	-5.87
378	244.57	189	4.254054	5.197143	7.020468	189	10.43	0.8	-3.76	-5.87
380	244.57	190	4.254054	5.04	6.976608	190	10.42	0.81	-3.76	-5.86
382	244.57	191	4.240541	5.182857	6.976608	191	10.43	0.81	-3.77	-5.85
384	244.57	192	4.254054	5.197143	7.005848	192	10.43	0.82	-3.76	-5.84
386	244.57	193	4.254054	5.182857	7.035088	193	10.43	0.83	-3.75	-5.84
388	244.57	194	4.254054	5.211429	7.049708	194	10.43	0.83	-3.74	-5.82

390	244.57	195	4.254054	5.225714	7.064327	195	10.43	0.84	-3.74	-5.82
392	244.57	196	4.254054	5.054286	7.064327	196	10.44	0.85	-3.73	-5.81
394	244.57	197	4.254054	5.182857	7.035088	197	10.44	0.86	-3.73	-5.79
396	244.57	198	4.254054	5.04	7.035088	198	10.44	0.86	-3.73	-5.79
398	244.57	199	4.254054	5.168571	7.020468	199	10.44	0.87	-3.73	-5.79
400	244.57	200	4.240541	5.182857	7.005848	200	10.44	0.88	-3.73	-5.79
402	244.57	201	4.254054	5.154286	7.020468	201	10.45	0.89	-3.73	-5.78
404	244.57	202	4.254054	5.211429	7.005848	202	10.45	0.89	-3.73	-5.78
406	244.57	203	4.254054	5.025714	7.035088	203	10.45	0.89	-3.72	-5.77
408	244.57	204	4.254054	4.982857	7.064327	204	10.44	0.9	-3.71	-5.77
410	244.57	205	4.254054	4.982857	7.078947	205	10.44	0.9	-3.72	-5.77
412	244.57	206	4.254054	5.211429	7.064327	206	10.45	0.91	-3.71	-5.76
414	244.57	207	4.254054	5.082857	7.035088	207	10.46	0.92	-3.71	-5.75
416	244.57	208	4.240541	4.925714	7.064327	208	10.46	0.92	-3.7	-5.74
418	244.58	209	4.254054	5.025714	7.064327	209	10.46	0.93	-3.71	-5.74
420	244.58	210	4.254054	5.04	7.093567	210	10.45	0.92	-3.71	-5.74
422	244.58	211	4.254054	5.04	7.049708	211	10.45	0.93	-3.71	-5.74
424	244.58	212	4.254054	5.04	7.035088	212	10.46	0.94	-3.69	-5.72
426	244.58	213	4.254054	5.068571	7.064327	213	10.46	0.95	-3.69	-5.71
428	244.58	214	4.254054	5.082857	7.064327	214	10.46	0.95	-3.69	-5.71
430	244.58	215	4.254054	5.211429	7.093567	215	10.46	0.95	-3.69	-5.69
432	244.58	216	4.254054	5.068571	7.064327	216	10.47	0.96	-3.68	-5.68
434	244.58	217	4.240541	4.982857	7.078947	217	10.47	0.96	-3.68	-5.68
436	244.58	218	4.254054	5.04	7.078947	218	10.46	0.96	-3.68	-5.69
438	244.58	219	4.254054	5.04	7.064327	219	10.47	0.97	-3.68	-5.68
440	244.58	220	4.254054	5.068571	7.049708	220	10.47	0.98	-3.68	-5.68
442	244.58	221	4.254054	5.025714	7.049708	221	10.47	0.99	-3.67	-5.68
444	244.58	222	4.254054	5.254286	7.064327	222	10.47	0.99	-3.67	-5.67
446	244.58	223	4.254054	5.254286	7.064327	223	10.47	1	-3.66	-5.66
448	244.58	224	4.254054	4.997143	7.108187	224	10.47	1.01	-3.67	-5.65
450	244.58	225	4.254054	5.211429	7.122807	225	10.48	1.01	-3.67	-5.63
452	244.58	226	4.254054	5.025714	7.122807	226	10.48	1.02	-3.67	-5.64
454	244.58	227	4.254054	5.254286	7.122807	227	10.49	1.03	-3.65	-5.63
456	244.57	228	4.254054	5.04	7.108187	228	10.48	1.03	-3.65	-5.64
458	244.56	229	4.254054	5.054286	7.064327	229	10.49	1.04	-3.64	-5.64
460	244.57	230	4.254054	5.054286	7.078947	230	10.49	1.04	-3.64	-5.62
462	244.57	231	4.254054	5.04	7.108187	231	10.49	1.04	-3.65	-5.62
464	244.56	232	4.254054	5.054286	7.078947	232	10.49	1.06	-3.65	-5.61
466	244.57	233	4.254054	5.24	7.093567	233	10.49	1.06	-3.64	-5.61
468	244.57	234	4.254054	5.054286	7.108187	234	10.49	1.06	-3.64	-5.62
470	244.56	235	4.254054	5.068571	7.108187	235	10.5	1.07	-3.63	-5.61
472	244.56	236	4.254054	5.04	7.093567	236	10.49	1.07	-3.62	-5.62
474	244.57	237	4.254054	5.054286	7.093567	237	10.49	1.08	-3.63	-5.61
476	244.56	238	4.254054	5.068571	7.108187	238	10.5	1.08	-3.63	-5.59
478	244.56	239	4.254054	5.24	7.122807	239	10.5	1.09	-3.63	-5.59

480	244.57	240	4.240541	5.254286	7.122807	240	10.5	1.1	-3.62	-5.57
482	244.57	241	4.240541	5.254286	7.152047	241	10.5	1.1	-3.63	-5.56
484	244.57	242	4.254054	5.254286	7.152047	242	10.51	1.11	-3.62	-5.56
486	244.57	243	4.240541	5.254286	7.122807	243	10.51	1.11	-3.61	-5.55
488	244.57	244	4.254054	5.254286	7.108187	244	10.52	1.12	-3.59	-5.53
		245	4.254054	5.254286	7.093567	245	10.52	1.13	-3.59	-5.56
		246	4.254054	5.254286	7.122807	246	10.52	1.13	-3.58	-5.55
		247	4.254054	5.04	7.093567	247	10.52	1.14	-3.58	-5.54
		248	4.254054	5.254286	7.108187	248	10.52	1.13	-3.58	-5.54
		249	4.254054	5.254286	7.122807	249	10.52	1.14	-3.58	-5.55
		250	4.254054	5.254286	7.137427	250	10.53	1.15	-3.57	-5.54
		251	4.240541	5.254286	7.137427	251	10.53	1.16	-3.56	-5.54
		252	4.254054	5.254286	7.195906	252	10.53	1.16	-3.57	-5.53
		253	4.254054	5.054286	7.181287	253	10.53	1.16	-3.56	-5.52
		254	4.254054	4.925714	7.166667	254	10.53	1.17	-3.56	-5.52
		255	4.240541	5.097143	7.137427	255	10.53	1.16	-3.56	-5.52
		256	4.254054	5.254286	7.122807	256	10.54	1.17	-3.55	-5.51
		257	4.254054	5.254286	7.166667	257	10.54	1.18	-3.55	-5.51
		258	4.254054	5.054286	7.181287	258	10.54	1.19	-3.55	-5.51
		259	4.254054	5.011429	7.181287	259	10.54	1.19	-3.54	-5.5
		260	4.254054	5.225714	7.152047	260	10.54	1.19	-3.55	-5.51
		261	4.254054	5.254286	7.166667	261	10.54	1.2	-3.55	-5.49
		262	4.254054	5.254286	7.166667	262	10.54	1.2	-3.55	-5.49
		263	4.254054	5.054286	7.137427	263	10.54	1.21	-3.54	-5.47
		264	4.254054	5.054286	7.152047	264	10.54	1.21	-3.54	-5.47
		265	4.254054	5.082857	7.137427	265	10.54	1.21	-3.54	-5.47
		266	4.240541	5.254286	7.152047	266	10.54	1.21	-3.54	-5.47
		267	4.254054	5.254286	7.181287	267	10.54	1.21	-3.55	-5.46
		268	4.254054	5.254286	7.195906	268	10.54	1.22	-3.54	-5.46
		269	4.254054	5.254286	7.181287	269	10.55	1.23	-3.53	-5.45
		270	4.254054	5.254286	7.166667	270	10.55	1.23	-3.53	-5.46
		271	4.254054	5.254286	7.166667	271	10.54	1.23	-3.53	-5.46
		272	4.254054	5.254286	7.166667	272	10.54	1.23	-3.52	-5.46
		273	4.254054	5.254286	7.137427	273	10.54	1.23	-3.53	-5.46
		274	4.254054	5.254286	7.137427	274	10.54	1.24	-3.53	-5.45
		275	4.240541	5.068571	7.166667	275	10.54	1.24	-3.53	-5.44
		276	4.254054	5.254286	7.181287	276	10.55	1.25	-3.52	-5.45
		277	4.254054	5.254286	7.166667	277	10.56	1.26	-3.52	-5.44
		278	4.254054	5.254286	7.152047	278	10.56	1.26	-3.51	-5.44
		279	4.254054	5.254286	7.181287	279	10.55	1.26	-3.51	-5.43
		280	4.254054	5.254286	7.181287	280	10.55	1.26	-3.52	-5.43
		281	4.254054	5.254286	7.210526	281	10.55	1.26	-3.53	-5.43
		282	4.254054	5.254286	7.181287	282	10.55	1.27	-3.53	-5.42
		283	4.254054	5.254286	7.181287	283	10.56	1.28	-3.52	-5.4
		284	4.254054	5.254286	7.166667	284	10.55	1.28	-3.52	-5.41

285	4.254054	5.254286	7.181287	285	10.55	1.28	-3.53	-5.41
286	4.254054	5.254286	7.181287	286	10.56	1.29	-3.52	-5.41
287	4.254054	5.254286	7.181287	287	10.57	1.3	-3.51	-5.38
288	4.254054	5.254286	7.195906	288	10.57	1.31	-3.52	-5.38
289	4.254054	5.254286	7.210526	289	10.57	1.32	-3.51	-5.36
290	4.254054	5.254286	7.195906	290	10.57	1.32	-3.51	-5.37
291	4.254054	5.254286	7.210526	291	10.57	1.32	-3.51	-5.36
292	4.254054	5.254286	7.210526	292	10.57	1.33	-3.51	-5.36
293	4.254054	5.254286	7.210526	293	10.57	1.33	-3.51	-5.36
294	4.254054	5.254286	7.195906	294	10.58	1.33	-3.5	-5.35
295	4.254054	5.254286	7.210526	295	10.58	1.33	-3.5	-5.35
296	4.254054	5.254286	7.195906	296	10.57	1.34	-3.49	-5.37
297	4.254054	5.254286	7.195906	297	10.57	1.34	-3.5	-5.36
298	4.254054	5.254286	7.195906	298	10.58	1.34	-3.49	-5.35
299	4.254054	5.254286	7.181287	299	10.57	1.34	-3.5	-5.36
300	4.254054	5.254286	7.181287	300	10.57	1.34	-3.49	-5.34
301	4.254054	5.254286	7.195906	301	10.57	1.34	-3.49	-5.36
302	4.254054	5.254286	7.210526	302	10.58	1.35	-3.49	-5.36
303	4.254054	5.254286	7.210526	303	10.58	1.35	-3.49	-5.34
304	4.254054	5.254286	7.225146	304	10.58	1.36	-3.49	-5.34
305	4.254054	5.254286	7.225146	305	10.58	1.36	-3.48	-5.33
306	4.254054	5.054286	7.239766	306	10.58	1.36	-3.48	-5.33
307	4.254054	5.168571	7.254386	307	10.58	1.37	-3.47	-5.33
308	4.254054	5.254286	7.254386	308	10.59	1.37	-3.48	-5.32
309	4.254054	5.254286	7.239766	309	10.58	1.37	-3.48	-5.32
310	4.254054	5.254286	7.283626	310	10.59	1.37	-3.49	-5.3
311	4.254054	5.254286	7.269006	311	10.58	1.38	-3.49	-5.31
312	4.254054	5.254286	7.225146	312	10.58	1.38	-3.49	-5.31
313	4.254054	5.254286	7.225146	313	10.59	1.39	-3.47	-5.31
314	4.254054	5.254286	7.225146	314	10.59	1.39	-3.47	-5.31
315	4.254054	5.254286	7.225146	315	10.59	1.4	-3.46	-5.3
316	4.254054	5.254286	7.239766	316	10.59	1.39	-3.46	-5.3
317	4.254054	5.254286	7.283626	317	10.59	1.4	-3.46	-5.3
318	4.254054	5.254286	7.239766	318	10.59	1.4	-3.46	-5.3
319	4.254054	5.254286	7.239766	319	10.6	1.41	-3.46	-5.29
320	4.254054	5.254286	7.239766	320	10.59	1.4	-3.46	-5.3
321	4.254054	5.254286	7.225146	321	10.6	1.41	-3.45	-5.29
322	4.254054	5.254286	7.239766	322	10.6	1.42	-3.44	-5.29
323	4.240541	5.254286	7.283626	323	10.6	1.42	-3.44	-5.3
324	4.254054	5.254286	7.269006	324	10.61	1.43	-3.43	-5.3
325	4.254054	5.254286	7.225146	325	10.61	1.43	-3.43	-5.3
326	4.254054	5.254286	7.239766	326	10.61	1.43	-3.43	-5.29
327	4.254054	5.254286	7.254386	327	10.61	1.44	-3.42	-5.28
328	4.254054	5.254286	7.283626	328	10.62	1.44	-3.42	-5.27
329	4.254054	5.254286	7.239766	329	10.61	1.44	-3.42	-5.28

330	4.254054	5.254286	7.225146	330	10.61	1.44	-3.41	-5.27
331	4.254054	5.254286	7.283626	331	10.62	1.45	-3.41	-5.27
332	4.254054	5.254286	7.283626	332	10.62	1.44	-3.41	-5.27
333	4.254054	5.254286	7.269006	333	10.62	1.44	-3.41	-5.26
334	4.254054	5.254286	7.269006	334	10.62	1.45	-3.4	-5.26
335	4.254054	5.254286	7.269006	335	10.62	1.45	-3.4	-5.27
336	4.254054	5.254286	7.254386	336	10.62	1.45	-3.41	-5.28
337	4.254054	5.254286	7.239766	337	10.62	1.46	-3.41	-5.26
338	4.254054	5.254286	7.225146	338	10.63	1.47	-3.41	-5.23
339	4.254054	5.254286	7.225146	339	10.63	1.47	-3.4	-5.24
340	4.254054	5.254286	7.239766	340	10.63	1.47	-3.4	-5.22
341	4.254054	5.254286	7.254386	341	10.63	1.47	-3.4	-5.22
342	4.240541	5.254286	7.298246	342	10.64	1.48	-3.4	-5.23
343	4.254054	5.254286	7.298246	343	10.63	1.48	-3.4	-5.24
344	4.254054	5.254286	7.283626	344	10.63	1.48	-3.4	-5.24
345	4.254054	5.254286	7.283626	345	10.63	1.48	-3.39	-5.24
346	4.254054	5.254286	7.298246	346	10.63	1.49	-3.38	-5.23
347	4.254054	5.254286	7.298246	347	10.63	1.49	-3.39	-5.22
348	4.240541	5.254286	7.312865	348	10.63	1.49	-3.39	-5.22
349	4.254054	5.254286	7.298246	349	10.63	1.49	-3.39	-5.23
350	4.254054	5.254286	7.312865	350	10.64	1.5	-3.37	-5.23
351	4.254054	5.254286	7.312865	351	10.65	1.5	-3.37	-5.21
352	4.254054	5.254286	7.298246	352	10.65	1.5	-3.37	-5.22
353	4.254054	5.254286	7.298246	353	10.64	1.5	-3.38	-5.22
354	4.254054	5.254286	7.342105	354	10.64	1.5	-3.38	-5.22
355	4.254054	5.254286	7.371345	355	10.64	1.5	-3.39	-5.23
356	4.254054	5.254286	7.342105	356	10.64	1.5	-3.39	-5.21
357	4.254054	5.254286	7.327485	357	10.65	1.51	-3.37	-5.21
358	4.240541	5.254286	7.342105	358	10.65	1.52	-3.37	-5.21
359	4.240541	5.254286	7.298246	359	10.65	1.52	-3.36	-5.21
360	4.254054	5.254286	7.298246	360	10.66	1.53	-3.36	-5.19
361	4.254054	5.254286	7.298246	361	10.66	1.53	-3.36	-5.2
362	4.240541	5.254286	7.298246	362	10.67	1.54	-3.35	-5.18
363	4.254054	5.254286	7.298246	363	10.67	1.55	-3.36	-5.19
364	4.254054	5.254286	7.269006	364	10.67	1.55	-3.35	-5.18
365	4.254054	5.254286	7.254386	365	10.67	1.55	-3.35	-5.18
366	4.254054	5.254286	7.269006	366	10.66	1.54	-3.36	-5.19
367	4.254054	5.254286	7.298246	367	10.66	1.54	-3.36	-5.19
368	4.254054	5.254286	7.312865	368	10.67	1.55	-3.36	-5.19
369	4.254054	5.254286	7.298246	369	10.67	1.55	-3.35	-5.18
370	4.254054	5.254286	7.298246	370	10.67	1.55	-3.35	-5.18
371	4.254054	5.254286	7.269006	371	10.67	1.56	-3.34	-5.18
372	4.254054	5.254286	7.312865	372	10.67	1.56	-3.34	-5.18
373	4.254054	5.254286	7.312865	373	10.67	1.56	-3.34	-5.18
374	4.254054	5.254286	7.312865	374	10.67	1.56	-3.34	-5.17

375	4.254054	5.254286	7.327485	375	10.67	1.56	-3.34	-5.17
376	4.254054	5.254286	7.298246	376	10.68	1.57	-3.33	-5.17
377	4.254054	5.254286	7.298246	377	10.68	1.57	-3.34	-5.16
378	4.240541	5.254286	7.298246	378	10.68	1.58	-3.33	-5.15
379	4.254054	5.254286	7.298246	379	10.68	1.58	-3.33	-5.15
380	4.254054	5.254286	7.298246	380	10.68	1.58	-3.34	-5.14
381	4.254054	5.254286	7.342105	381	10.68	1.58	-3.35	-5.13
382	4.254054	5.254286	7.371345	382	10.68	1.58	-3.35	-5.12
383	4.254054	5.254286	7.356725	383	10.68	1.59	-3.34	-5.12
384	4.254054	5.254286	7.356725	384	10.68	1.59	-3.33	-5.11
385	4.254054	5.254286	7.342105	385	10.68	1.59	-3.34	-5.11
386	4.254054	5.254286	7.312865	386	10.68	1.59	-3.35	-5.11
387	4.254054	5.254286	7.327485	387	10.68	1.59	-3.34	-5.11
388	4.254054	5.254286	7.327485	388	10.68	1.59	-3.35	-5.13
389	4.254054	5.254286	7.298246	389	10.68	1.6	-3.34	-5.11
390	4.254054	5.254286	7.312865	390	10.68	1.6	-3.34	-5.11
391	4.254054	5.254286	7.327485	391	10.68	1.59	-3.34	-5.11
392	4.254054	5.254286	7.327485	392	10.68	1.6	-3.34	-5.13
393	4.254054	5.254286	7.327485	393	10.67	1.59	-3.35	-5.13
394	4.254054	5.254286	7.327485	394	10.67	1.6	-3.34	-5.13
395	4.254054	5.254286	7.327485	395	10.68	1.6	-3.33	-5.11
396	4.254054	5.254286	7.356725	396	10.68	1.6	-3.34	-5.11
397	4.254054	5.254286	7.342105	397	10.68	1.61	-3.33	-5.12
398	4.254054	5.254286	7.342105	398	10.68	1.61	-3.33	-5.12
399	4.254054	5.254286	7.385965	399	10.68	1.61	-3.33	-5.11
400	4.254054	5.254286	7.356725	400	10.68	1.61	-3.33	-5.12
401	4.254054	5.254286	7.356725	401	10.68	1.61	-3.33	-5.12
402	4.254054	5.254286	7.356725	402	10.68	1.62	-3.33	-5.11
403	4.254054	5.254286	7.356725	403	10.68	1.62	-3.33	-5.1
404	4.254054	5.254286	7.385965	404	10.69	1.62	-3.32	-5.1
405	4.254054	5.254286	7.385965	405	10.68	1.61	-3.33	-5.1
406	4.254054	5.254286	7.400585	406	10.68	1.62	-3.32	-5.11
407	4.254054	5.254286	7.400585	407	10.69	1.63	-3.31	-5.1
408	4.254054	5.254286	7.385965	408	10.69	1.63	-3.31	-5.09
409	4.254054	5.254286	7.459064	409	10.7	1.64	-3.29	-5.07
410	4.254054	5.254286	7.415205	410	10.7	1.64	-3.3	-5.07
411	4.254054	5.254286	7.371345	411	10.7	1.64	-3.3	-5.08
412	4.254054	5.254286	7.400585	412	10.7	1.64	-3.31	-5.09
413	4.254054	5.254286	7.415205	413	10.7	1.64	-3.3	-5.08
414	4.254054	5.254286	7.415205	414	10.7	1.64	-3.3	-5.09
415	4.254054	5.254286	7.415205	415	10.71	1.65	-3.3	-5.08
416	4.254054	5.254286	7.415205	416	10.71	1.65	-3.29	-5.09
417	4.254054	5.254286	7.429825	417	10.7	1.65	-3.29	-5.1
418	4.254054	5.254286	7.415205	418	10.7	1.65	-3.29	-5.09
419	4.240541	5.254286	7.385965	419	10.71	1.65	-3.28	-5.09

420	4.254054	5.254286	7.415205	420	10.71	1.66	-3.28	-5.08
421	4.254054	5.254286	7.415205	421	10.71	1.66	-3.29	-5.08
422	4.254054	5.254286	7.459064	422	10.71	1.65	-3.29	-5.07
423	4.254054	5.254286	7.444444	423	10.72	1.65	-3.29	-5.07
424	4.254054	5.254286	7.385965	424	10.73	1.67	-3.27	-5.07
425	4.254054	5.254286	7.429825	425	10.73	1.67	-3.27	-5.07
426	4.254054	5.254286	7.429825	426	10.73	1.68	-3.26	-5.07
427	4.254054	5.254286	7.459064	427	10.73	1.67	-3.27	-5.05
428	4.254054	5.254286	7.429825	428	10.72	1.67	-3.28	-5.07
429	4.254054	5.254286	7.444444	429	10.73	1.67	-3.28	-5.06
430	4.254054	5.254286	7.429825	430	10.73	1.68	-3.28	-5.05
431	4.254054	5.254286	7.429825	431	10.74	1.69	-3.27	-5.05
432	4.254054	5.254286	7.429825	432	10.74	1.69	-3.27	-5.05
433	4.254054	5.254286	7.429825	433	10.74	1.69	-3.28	-5.04
434	4.254054	5.254286	7.415205	434	10.73	1.68	-3.28	-5.05
435	4.254054	5.254286	7.385965	435	10.73	1.69	-3.28	-5.03
436	4.254054	5.254286	7.385965	436	10.74	1.7	-3.27	-5.05
437	4.254054	5.254286	7.371345	437	10.74	1.7	-3.27	-5.05
438	4.254054	5.254286	7.371345	438	10.74	1.7	-3.26	-5.04
439	4.254054	5.254286	7.415205	439	10.74	1.7	-3.26	-5.03
440	4.254054	5.254286	7.444444	440	10.74	1.7	-3.26	-5.04
441	4.254054	5.254286	7.459064	441	10.75	1.71	-3.25	-5.04
442	4.254054	5.254286	7.429825	442	10.74	1.71	-3.25	-5.04
443	4.254054	5.254286	7.415205	443	10.74	1.7	-3.25	-5.03
444	4.254054	5.254286	7.400585	444	10.74	1.7	-3.25	-5.04
445	4.254054	5.254286	7.385965	445	10.74	1.7	-3.25	-5.03
446	4.254054	5.254286	7.415205	446	10.75	1.71	-3.24	-5.03
447	4.254054	5.254286	7.444444	447	10.74	1.71	-3.25	-5.04
448	4.254054	5.254286	7.444444	448	10.74	1.71	-3.25	-5.04
449	4.254054	5.254286	7.400585	449	10.74	1.71	-3.25	-5.04
450	4.254054	5.254286	7.444444	450	10.75	1.71	-3.24	-5.04
451	4.254054	5.254286	7.429825	451	10.75	1.72	-3.25	-5.02
452	4.254054	5.254286	7.429825	452	10.75	1.72	-3.26	-5.01
453	4.254054	5.254286	7.459064	453	10.75	1.73	-3.25	-5.01
454	4.254054	5.254286	7.459064	454	10.76	1.73	-3.25	-5
455	4.254054	5.254286	7.415205	455	10.75	1.73	-3.25	-5
456	4.254054	5.254286	7.429825	456	10.74	1.72	-3.25	-5
457	4.254054	5.254286	7.415205	457	10.75	1.73	-3.25	-5
458	4.254054	5.254286	7.415205	458	10.75	1.73	-3.25	-4.99
459	4.254054	5.254286	7.444444	459	10.76	1.74	-3.24	-5
460	4.254054	5.254286	7.429825	460	10.75	1.74	-3.24	-5.01
461	4.254054	5.254286	7.415205	461	10.75	1.73	-3.24	-5.01
462	4.254054	5.254286	7.444444	462	10.76	1.74	-3.23	-5
463	4.254054	5.254286	7.429825	463	10.77	1.74	-3.23	-5
464	4.254054	5.254286	7.415205	464	10.76	1.74	-3.24	-5.01

465	4.254054	5.254286	7.400585	465	10.76	1.74	-3.23	-5.01
466	4.254054	5.254286	7.429825	466	10.76	1.74	-3.23	-5.01
467	4.254054	5.254286	7.444444	467	10.76	1.74	-3.22	-5
468	4.254054	5.254286	7.429825	468	10.77	1.74	-3.22	-5.01
469	4.254054	5.254286	7.429825	469	10.77	1.75	-3.22	-5
470	4.240541	5.254286	7.444444	470	10.77	1.75	-3.22	-4.99
471	4.240541	5.254286	7.415205	471	10.77	1.75	-3.23	-4.99
472	4.240541	5.254286	7.400585	472	10.76	1.74	-3.23	-4.99
473	4.240541	5.254286	7.415205	473	10.77	1.75	-3.23	-4.99
474	4.240541	5.254286	7.473684	474	10.77	1.75	-3.23	-4.98
475	4.240541	5.254286	7.444444	475	10.77	1.75	-3.24	-4.98
476	4.254054	5.254286	7.415205	476	10.77	1.76	-3.25	-4.96
477	4.254054	5.254286	7.429825	477	10.76	1.75	-3.27	-4.96
478	4.240541	5.254286	7.444444	478	10.76	1.75	-3.27	-4.96
479	4.240541	5.254286	7.459064	479	10.76	1.75	-3.26	-4.96
480	4.254054	5.254286	7.473684	480	10.77	1.76	-3.26	-4.95
481	4.254054	5.254286	7.473684	481	10.77	1.77	-3.25	-4.94
482	4.254054	5.254286	7.473684	482	10.77	1.77	-3.26	-4.95
483	4.254054	5.254286	7.459064	483	10.77	1.77	-3.26	-4.94
484	4.254054	5.254286	7.459064	484	10.77	1.77	-3.24	-4.96
485	4.254054	5.254286	7.444444	485	10.77	1.76	-3.24	-4.98
486	4.254054	5.254286	7.415205	486	10.77	1.77	-3.23	-4.97
487	4.254054	5.254286	7.444444	487	10.77	1.77	-3.24	-4.97
488	4.240541	5.254286	7.459064	488	10.76	1.77	-3.24	-4.96

Control_exp_4

Experiment type: Control experiment. This experiment consisted of just calcium perchlorate, weighing 81.08 g. There was not a humidity buffer inside the chamber. Chiller was set to -17°C.

Temperature around the sample was controlled by the chiller.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= humidity buffer 3= atmosphere 4= sample

Mass		RH	T							
Min.	Mass	Min.	Ch02	Ch03	Ch04	Min.	Ch01	Ch02	Ch03	Ch04
0	86.3	0	2.118919	2.282857	0.251462	0	14.46	-0.61	-1.13	-10.46
2	85.77	1	1.659459	1.011429	0.032164	1	10.58	-2.53	-2.37	-10.9
4	85.54	2	1.47027	1.074286	0.339181	2	7.29	-7.64	-9.16	-15.61

6	85.49	3	1.186486	4.545714	0.675439	3	7.92	-6.75	-9.71	-14.67
8	85.5	4	0.605405	5.917143	0.660819	4	7.66	-4.65	-9.36	-11.98
10	85.52	5	0.07027	4.345714	0.51462	5	7.31	-4.12	-8.74	-10.89
12	85.53	6	0.583784	2.417143	0.52924	6	7.01	-3.24	-8.08	-10.38
14	85.52	7	0.813514	1.06	0.807018	7	6.78	-2.55	-7.31	-9.89
16	85.52	8	0.759459	0.231429	1.230994	8	6.58	-2.3	-6.54	-9.45
18	85.52	9	0.448649	0.211429	1.71345	9	6.5	-2.22	-6.18	-9.16
20	85.5	10	0.07027	0.525714	2.195906	10	6.36	-2.12	-5.92	-8.91
22	85.5	11	0.294595	0.825714	2.561404	11	6.26	-2.11	-5.75	-8.77
24	85.5	12	0.632432	1.182857	2.897661	12	6.16	-2.08	-5.75	-8.62
26	85.49	13	0.916216	1.568571	3.277778	13	6.04	-2	-5.76	-8.51
28	85.49	14	1.227027	1.94	3.614035	14	5.95	-1.95	-5.76	-8.38
30	85.48	15	1.564865	2.254286	3.862573	15	5.88	-1.89	-5.72	-8.31
32	85.48	16	1.848649	2.54	4.067251	16	5.81	-1.84	-5.7	-8.25
34	85.48	17	2.105405	2.768571	4.28655	17	5.74	-1.82	-5.69	-8.21
36	85.47	18	2.335135	2.954286	4.520468	18	5.69	-1.79	-5.67	-8.18
38	85.47	19	2.537838	3.211429	4.695906	19	5.64	-1.74	-5.65	-8.15
40	85.46	20	2.727027	3.382857	4.856725	20	5.6	-1.7	-5.63	-8.09
42	85.46	21	2.875676	3.468571	5.002924	21	5.57	-1.66	-5.61	-8.06
44	85.46	22	2.997297	3.64	5.134503	22	5.53	-1.64	-5.6	-8.05
46	85.46	23	3.105405	3.811429	5.280702	23	5.51	-1.59	-5.57	-8.02
48	85.45	24	3.186486	3.868571	5.383041	24	5.48	-1.56	-5.55	-7.99
50	85.45	25	3.267568	3.982857	5.5	25	5.47	-1.52	-5.52	-7.96
52	85.45	26	3.362162	4.125714	5.616959	26	5.45	-1.48	-5.51	-7.96
54	85.44	27	3.443243	4.254286	5.704678	27	5.43	-1.46	-5.49	-7.95
56	85.43	28	3.524324	4.325714	5.777778	28	5.42	-1.42	-5.48	-7.92
58	85.43	29	3.591892	4.354286	5.865497	29	5.4	-1.38	-5.47	-7.9
60	85.43	30	3.632432	4.397143	5.967836	30	5.37	-1.35	-5.46	-7.88
62	85.46	31	3.686486	4.454286	6.055556	31	5.36	-1.32	-5.4	-7.86
64	85.43	32	3.740541	4.511429	6.070175	32	5.35	-1.29	-5.36	-7.84
66	85.43	33	3.808108	4.582857	6.099415	33	5.34	-1.25	-5.36	-7.8
68	85.42	34	3.862162	4.682857	6.128655	34	5.33	-1.23	-5.32	-7.79
70	85.42	35	3.943243	4.711429	6.230994	35	5.33	-1.21	-5.27	-7.78
72	85.42	36	4.024324	4.725714	6.333333	36	5.33	-1.19	-5.25	-7.77
74	85.42	37	4.051351	4.768571	6.318713	37	5.33	-1.17	-5.19	-7.78
76	85.42	38	4.118919	4.782857	6.377193	38	5.34	-1.15	-5.15	-7.77
78	85.41	39	4.159459	4.811429	6.421053	39	5.35	-1.13	-5.12	-7.76
80	85.41	40	4.159459	4.868571	6.464912	40	5.35	-1.11	-5.11	-7.76
82	85.45	41	4.213514	4.882857	6.479532	41	5.37	-1.09	-5.11	-7.74
84	85.41	42	4.051351	4.968571	6.523392	42	5.38	-1.09	-5.13	-7.73
86	85.41	43	4.227027	4.925714	6.567251	43	5.4	-1.07	-5.14	-7.71
88	85.41	44	4.037838	4.954286	6.596491	44	5.41	-1.03	-5.1	-7.7
90	85.41	45	4.064865	5.025714	6.567251	45	5.41	-1.01	-5.08	-7.7
92	85.41	46	4.091892	4.997143	6.581871	46	5.43	-0.98	-5.07	-7.67
94	85.4	47	4.145946	4.982857	6.567251	47	5.44	-0.96	-5.08	-7.63

96	85.4	48	4.254054	5.054286	6.596491	48	5.45	-0.96	-5.12	-7.6
98	85.4	49	4.254054	5.025714	6.596491	49	5.48	-0.96	-5.1	-7.56
100	85.4	50	4.254054	5.097143	6.611111	50	5.51	-0.96	-5.06	-7.56
102	85.4	51	4.254054	5.097143	6.640351	51	5.52	-0.96	-5.01	-7.56
104	85.4	52	4.254054	5.054286	6.654971	52	5.53	-0.85	-5.03	-7.47
106	85.39	53	4.254054	5.068571	6.684211	53	5.5	-0.82	-5.1	-7.44
108	85.4	54	4.254054	5.111429	6.71345	54	5.49	-0.8	-5.03	-7.47
110	85.4	55	4.254054	5.125714	6.75731	55	5.5	-0.81	-5.01	-7.47
112	85.39	56	4.254054	5.04	6.71345	56	5.54	-0.81	-4.95	-7.45
114	85.4	57	4.254054	5.025714	6.74269	57	5.53	-0.74	-5.03	-7.35
116	85.4	58	4.254054	5.168571	6.80117	58	5.5	-0.72	-5.03	-7.37
118	85.39	59	4.254054	5.011429	6.80117	59	5.53	-0.76	-4.96	-7.4
120	85.39	60	4.254054	4.925714	6.78655	60	5.55	-0.67	-4.97	-7.33
122	85.39	61	4.254054	5.182857	6.75731	61	5.53	-0.67	-4.97	-7.33
124	85.38	62	4.254054	5.182857	6.77193	62	5.55	-0.71	-4.92	-7.35
126	85.39	63	4.254054	5.168571	6.815789	63	5.55	-0.63	-4.94	-7.29
128	85.39	64	4.254054	5.14	6.80117	64	5.56	-0.66	-4.93	-7.31
130	85.39	65	4.254054	5.14	6.815789	65	5.58	-0.61	-4.9	-7.27
132	85.39	66	4.254054	5.182857	6.874269	66	5.57	-0.61	-4.92	-7.26
134	85.38	67	4.254054	5.154286	6.859649	67	5.6	-0.6	-4.87	-7.26
136	85.38	68	4.254054	5.168571	6.845029	68	5.6	-0.55	-4.95	-7.18
138	85.38	69	4.254054	5.197143	6.859649	69	5.59	-0.53	-4.93	-7.2
140	85.38	70	4.254054	5.011429	6.874269	70	5.6	-0.52	-4.88	-7.21
142	85.38	71	4.254054	5.225714	6.903509	71	5.61	-0.53	-4.88	-7.2
144	85.38	72	4.254054	5.025714	6.874269	72	5.63	-0.56	-4.85	-7.19
146	85.38	73	4.254054	5.025714	6.859649	73	5.65	-0.56	-4.79	-7.2
148	85.38	74	4.254054	4.997143	6.903509	74	5.66	-0.47	-4.81	-7.13
150	85.38	75	4.254054	4.954286	6.903509	75	5.67	-0.48	-4.85	-7.12
152	85.38	76	4.254054	5.011429	6.918129	76	5.68	-0.51	-4.82	-7.13
154	85.38	77	4.254054	5.04	6.918129	77	5.69	-0.52	-4.77	-7.14
156	85.38	78	4.254054	4.997143	6.918129	78	5.71	-0.46	-4.73	-7.12
158	85.38	79	4.254054	5.025714	6.932749	79	5.72	-0.44	-4.82	-7.07
160	85.38	80	4.254054	5.054286	6.947368	80	5.72	-0.47	-4.81	-7.06
162	85.38	81	4.254054	5.025714	6.961988	81	5.73	-0.47	-4.75	-7.07
164	85.38	82	4.254054	5.068571	6.918129	82	5.74	-0.47	-4.7	-7.09
166	85.38	83	4.254054	5.225714	6.918129	83	5.76	-0.38	-4.74	-7.02
168	85.37	84	4.254054	5.04	6.932749	84	5.75	-0.43	-4.81	-7
170	85.37	85	4.254054	5.225714	6.947368	85	5.76	-0.44	-4.75	-7.02
172	85.37	86	4.254054	5.211429	6.947368	86	5.77	-0.44	-4.7	-7.03
174	85.37	87	4.254054	5.04	6.961988	87	5.78	-0.41	-4.66	-7.02
176	85.37	88	4.254054	5.225714	6.976608	88	5.8	-0.36	-4.72	-6.95
178	85.37	89	4.254054	5.025714	6.991228	89	5.8	-0.4	-4.74	-6.94
180	85.37	90	4.254054	4.982857	6.976608	90	5.8	-0.39	-4.7	-6.95
182	85.37	91	4.254054	5.025714	6.976608	91	5.82	-0.38	-4.66	-6.95
184	85.37	92	4.254054	5.04	6.976608	92	5.83	-0.37	-4.62	-6.95

186	85.36	93	4.254054	5.011429	6.947368	93	5.85	-0.31	-4.62	-6.92
188	85.36	94	4.254054	5.025714	6.947368	94	5.85	-0.33	-4.69	-6.88
190	85.36	95	4.254054	5.225714	6.961988	95	5.85	-0.33	-4.65	-6.89
192	85.36	96	4.254054	5.025714	6.991228	96	5.86	-0.33	-4.63	-6.89
194	85.36	97	4.254054	4.997143	6.961988	97	5.86	-0.31	-4.61	-6.89
196	85.36	98	4.254054	5.225714	7.020468	98	5.87	-0.31	-4.58	-6.89
198	85.36	99	4.254054	4.968571	7.005848	99	5.87	-0.3	-4.57	-6.89
200	85.36	100	4.254054	5.04	6.991228	100	5.91	-0.24	-4.57	-6.82
202	85.36	101	4.254054	4.94	7.020468	101	5.89	-0.27	-4.59	-6.82
204	85.36	102	4.254054	5.04	7.064327	102	5.89	-0.27	-4.58	-6.83
206	85.36	103	4.254054	5.097143	7.078947	103	5.89	-0.26	-4.58	-6.82
208	85.36	104	4.254054	5.225714	7.035088	104	5.91	-0.24	-4.55	-6.81
210	85.36	105	4.254054	5.225714	7.035088	105	5.91	-0.22	-4.53	-6.8
212	85.36	106	4.254054	5.225714	7.064327	106	5.93	-0.21	-4.52	-6.76
214	85.36	107	4.254054	5.054286	7.064327	107	5.92	-0.22	-4.54	-6.76
216	85.36	108	4.254054	5.225714	7.064327	108	5.92	-0.21	-4.54	-6.77
218	85.36	109	4.254054	5.011429	7.064327	109	5.93	-0.2	-4.54	-6.76
220	85.35	110	4.254054	4.997143	7.064327	110	5.94	-0.19	-4.52	-6.75
222	85.35	111	4.254054	4.968571	7.049708	111	5.96	-0.14	-4.48	-6.72
224	85.35	112	4.254054	5.011429	7.064327	112	5.96	-0.16	-4.49	-6.7
226	85.35	113	4.254054	5.025714	7.064327	113	5.95	-0.16	-4.5	-6.71
228	85.35	114	4.254054	4.997143	7.064327	114	5.95	-0.15	-4.49	-6.7
230	85.35	115	4.254054	5.068571	7.064327	115	5.97	-0.13	-4.49	-6.69
232	85.35	116	4.254054	5.068571	7.078947	116	5.98	-0.12	-4.48	-6.68
234	85.35	117	4.254054	5.225714	7.078947	117	5.99	-0.08	-4.45	-6.66
236	85.35	118	4.254054	5.225714	7.093567	118	5.99	-0.09	-4.45	-6.64
238	85.35	119	4.254054	5.054286	7.078947	119	5.98	-0.09	-4.46	-6.65
240	85.35	120	4.254054	4.982857	7.093567	120	5.99	-0.08	-4.45	-6.65
242	85.35	121	4.254054	4.968571	7.078947	121	6	-0.07	-4.45	-6.63
244	85.35	122	4.254054	5.211429	7.093567	122	6.01	-0.06	-4.44	-6.62
246	85.35	123	4.254054	5.225714	7.093567	123	6.01	-0.05	-4.44	-6.62
248	85.35	124	4.254054	5.225714	7.108187	124	6.02	-0.03	-4.43	-6.61
250	85.35	125	4.254054	5.225714	7.093567	125	6.04	0.01	-4.39	-6.57
252	85.35	126	4.254054	5.025714	7.108187	126	6.02	-0.02	-4.41	-6.58
254	85.35	127	4.254054	4.911429	7.122807	127	6.02	-0.02	-4.41	-6.59
256	85.35	128	4.254054	5.025714	7.093567	128	6.03	-0.01	-4.41	-6.58
258	85.34	129	4.254054	5.054286	7.078947	129	6.03	0	-4.4	-6.57
260	85.34	130	4.254054	4.954286	7.108187	130	6.04	0.01	-4.4	-6.56
262	85.35	131	4.254054	5.111429	7.122807	131	6.05	0.03	-4.39	-6.54
264	85.34	132	4.254054	5.225714	7.122807	132	6.05	0.03	-4.39	-6.54
266	85.34	133	4.254054	5.225714	7.122807	133	6.06	0.07	-4.36	-6.52
268	85.34	134	4.254054	5.225714	7.122807	134	6.06	0.05	-4.36	-6.51
270	85.34	135	4.254054	5.225714	7.137427	135	6.05	0.05	-4.36	-6.52
272	85.34	136	4.254054	5.225714	7.152047	136	6.07	0.09	-4.34	-6.5
274	85.34	137	4.254054	5.225714	7.152047	137	6.07	0.07	-4.35	-6.48

276	85.34	138	4.254054	5.225714	7.122807	138	6.07	0.08	-4.35	-6.49
278	85.34	139	4.254054	5.225714	7.122807	139	6.08	0.12	-4.33	-6.47
280	85.34	140	4.254054	4.997143	7.152047	140	6.08	0.1	-4.34	-6.46
282	85.34	141	4.254054	5.225714	7.137427	141	6.06	0.1	-4.34	-6.48
284	85.34	142	4.254054	5.225714	7.122807	142	6.08	0.15	-4.31	-6.45
286	85.34	143	4.254054	5.225714	7.166667	143	6.08	0.12	-4.33	-6.44
288	85.34	144	4.254054	5.225714	7.137427	144	6.07	0.13	-4.32	-6.45
290	85.34	145	4.254054	5.225714	7.152047	145	6.07	0.14	-4.32	-6.45
292	85.34	146	4.254054	5.225714	7.181287	146	6.08	0.15	-4.31	-6.43
294	85.34	147	4.254054	5.225714	7.152047	147	6.09	0.15	-4.31	-6.43
296	85.34	148	4.254054	5.04	7.152047	148	6.1	0.17	-4.3	-6.41
298	85.34	149	4.254054	5.04	7.122807	149	6.11	0.18	-4.3	-6.4
300	85.34	150	4.254054	5.225714	7.137427	150	6.12	0.2	-4.28	-6.39
302	85.34	151	4.254054	5.225714	7.152047	151	6.12	0.2	-4.28	-6.39
304	85.33	152	4.254054	5.225714	7.166667	152	6.12	0.21	-4.27	-6.38
306	85.33	153	4.254054	5.225714	7.181287	153	6.13	0.22	-4.27	-6.37
308	85.33	154	4.254054	5.225714	7.166667	154	6.13	0.23	-4.26	-6.36
310	85.33	155	4.254054	5.225714	7.195906	155	6.13	0.23	-4.26	-6.36
312	85.33	156	4.254054	5.225714	7.181287	156	6.14	0.25	-4.25	-6.34
314	85.33	157	4.254054	5.225714	7.166667	157	6.14	0.25	-4.25	-6.34
316	85.33	158	4.254054	5.225714	7.195906	158	6.14	0.25	-4.25	-6.34
318	85.33	159	4.254054	5.225714	7.181287	159	6.16	0.27	-4.24	-6.33
320	85.33	160	4.254054	5.225714	7.166667	160	6.16	0.28	-4.23	-6.32
322	85.33	161	4.254054	5.225714	7.152047	161	6.16	0.28	-4.23	-6.32
324	85.33	162	4.254054	5.225714	7.152047	162	6.16	0.28	-4.22	-6.32
326	85.33	163	4.254054	5.04	7.166667	163	6.16	0.29	-4.21	-6.32
328	85.33	164	4.254054	5.225714	7.195906	164	6.17	0.3	-4.21	-6.3
330	85.33	165	4.254054	5.225714	7.181287	165	6.17	0.31	-4.2	-6.3
332	85.33	166	4.254054	5.225714	7.225146	166	6.17	0.31	-4.2	-6.29
334	85.33	167	4.254054	5.225714	7.225146	167	6.17	0.32	-4.2	-6.29
336	85.33	168	4.254054	5.225714	7.195906	168	6.16	0.32	-4.19	-6.29
338	85.33	169	4.254054	5.04	7.195906	169	6.17	0.33	-4.18	-6.28
340	85.33	170	4.254054	5.211429	7.239766	170	6.17	0.34	-4.17	-6.28
342	85.33	171	4.254054	5.225714	7.239766	171	6.17	0.35	-4.17	-6.27
344	85.33	172	4.254054	5.225714	7.239766	172	6.17	0.35	-4.17	-6.27
346	85.33	173	4.254054	5.225714	7.254386	173	6.17	0.36	-4.16	-6.27
348	85.33	174	4.254054	5.225714	7.239766	174	6.18	0.37	-4.15	-6.25
350	85.33	175	4.254054	5.225714	7.254386	175	6.18	0.38	-4.14	-6.25
352	85.33	176	4.254054	5.225714	7.254386	176	6.18	0.39	-4.14	-6.24
354	85.33	177	4.254054	5.225714	7.239766	177	6.19	0.4	-4.13	-6.23
356	85.32	178	4.254054	5.225714	7.225146	178	6.19	0.4	-4.13	-6.22
358	85.32	179	4.254054	5.225714	7.239766	179	6.19	0.41	-4.12	-6.23
360	85.32	180	4.254054	5.225714	7.239766	180	6.18	0.42	-4.12	-6.22
362	85.32	181	4.254054	5.225714	7.210526	181	6.18	0.42	-4.12	-6.22
364	85.32	182	4.254054	5.225714	7.239766	182	6.18	0.43	-4.12	-6.21

366	85.32	183	4.254054	5.225714	7.239766	183	6.18	0.44	-4.11	-6.21
368	85.32	184	4.254054	5.225714	7.254386	184	6.18	0.45	-4.1	-6.2
370	85.32	185	4.254054	5.225714	7.254386	185	6.18	0.46	-4.09	-6.2
372	85.32	186	4.254054	5.225714	7.254386	186	6.18	0.47	-4.08	-6.19
374	85.32	187	4.254054	5.225714	7.239766	187	6.17	0.47	-4.09	-6.19
376	85.32	188	4.254054	5.225714	7.239766	188	6.17	0.48	-4.08	-6.18
378	85.32	189	4.254054	5.225714	7.269006	189	6.17	0.48	-4.08	-6.18
380	85.32	190	4.254054	5.225714	7.283626	190	6.17	0.49	-4.08	-6.17
382	85.32	191	4.254054	5.225714	7.269006	191	6.17	0.49	-4.07	-6.17
384	85.32	192	4.254054	5.225714	7.210526	192	6.18	0.5	-4.07	-6.16
386	85.32	193	4.254054	5.225714	7.254386	193	6.17	0.51	-4.07	-6.16
388	85.32	194	4.254054	5.225714	7.269006	194	6.17	0.52	-4.06	-6.16
390	85.32	195	4.254054	5.225714	7.254386	195	6.17	0.53	-4.06	-6.15
392	85.32	196	4.254054	5.225714	7.269006	196	6.17	0.54	-4.05	-6.15
394	85.32	197	4.254054	5.225714	7.298246	197	6.17	0.56	-4.04	-6.14
396	85.32	198	4.254054	5.225714	7.283626	198	6.16	0.56	-4.04	-6.14
398	85.32	199	4.254054	5.225714	7.283626	199	6.16	0.56	-4.04	-6.14
400	85.32	200	4.254054	5.225714	7.269006	200	6.16	0.57	-4.04	-6.13
402	85.32	201	4.254054	5.225714	7.283626	201	6.16	0.58	-4.03	-6.12
404	85.32	202	4.254054	5.225714	7.283626	202	6.16	0.6	-4.02	-6.11
406	85.32	203	4.254054	5.225714	7.327485	203	6.16	0.61	-4.01	-6.11
408	85.32	204	4.254054	5.225714	7.298246	204	6.16	0.61	-4.01	-6.1
410	85.32	205	4.254054	5.225714	7.269006	205	6.15	0.61	-4.02	-6.1
412	85.32	206	4.254054	5.225714	7.254386	206	6.14	0.62	-4.01	-6.1
414	85.32	207	4.254054	5.225714	7.312865	207	6.14	0.63	-4.01	-6.1
416	85.32	208	4.254054	5.225714	7.269006	208	6.13	0.63	-4.01	-6.1
418	85.32	209	4.254054	5.225714	7.269006	209	6.13	0.64	-4.01	-6.09
420	85.32	210	4.254054	5.225714	7.298246	210	6.12	0.64	-4.01	-6.1
422	85.32	211	4.254054	5.225714	7.298246	211	6.12	0.65	-4.01	-6.09
424	85.32	212	4.254054	5.225714	7.283626	212	6.12	0.66	-4	-6.08
426	85.32	213	4.254054	5.225714	7.312865	213	6.12	0.67	-4	-6.07
428	85.32	214	4.254054	5.225714	7.298246	214	6.12	0.69	-3.99	-6.06
430	85.32	215	4.254054	5.225714	7.298246	215	6.13	0.7	-3.98	-6.05
432	85.32	216	4.254054	5.225714	7.312865	216	6.12	0.7	-3.98	-6.05
434	85.32	217	4.254054	5.225714	7.342105	217	6.12	0.7	-3.98	-6.05
436	85.32	218	4.254054	5.225714	7.327485	218	6.12	0.71	-3.98	-6.04
438	85.32	219	4.254054	5.225714	7.298246	219	6.12	0.72	-3.98	-6.04
440	85.32	220	4.254054	5.225714	7.298246	220	6.13	0.73	-3.97	-6.03
442	85.32	221	4.254054	5.225714	7.298246	221	6.12	0.73	-3.96	-6.03
444	85.32	222	4.254054	5.225714	7.298246	222	6.13	0.74	-3.96	-6.02
446	85.32	223	4.254054	5.225714	7.298246	223	6.13	0.76	-3.95	-6.01
448	85.32	224	4.254054	5.225714	7.327485	224	6.12	0.76	-3.95	-6.01
450	85.31	225	4.254054	5.225714	7.298246	225	6.11	0.77	-3.95	-6.01
452	85.31	226	4.254054	5.225714	7.298246	226	6.11	0.78	-3.95	-6.01
454	85.31	227	4.254054	5.225714	7.312865	227	6.11	0.78	-3.95	-6

456	85.31	228	4.254054	5.225714	7.312865	228	6.11	0.79	-3.95	-6
458	85.31	229	4.254054	5.225714	7.312865	229	6.11	0.8	-3.94	-5.99
460	85.31	230	4.254054	5.225714	7.298246	230	6.1	0.8	-3.94	-5.99
462	85.31	231	4.254054	5.225714	7.298246	231	6.1	0.81	-3.94	-5.99
464	85.31	232	4.254054	5.225714	7.312865	232	6.1	0.82	-3.94	-5.98
466	85.31	233	4.254054	5.225714	7.312865	233	6.09	0.81	-3.94	-5.99
468	85.31	234	4.254054	5.225714	7.312865	234	6.09	0.82	-3.94	-5.98
470	85.31	235	4.240541	5.225714	7.298246	235	6.09	0.82	-3.94	-5.98
472	85.31	236	4.254054	5.225714	7.327485	236	6.09	0.83	-3.94	-5.98
474	85.31	237	4.254054	5.225714	7.356725	237	6.09	0.83	-3.94	-5.98
476	85.31	238	4.254054	5.225714	7.356725	238	6.08	0.83	-3.94	-5.98
478	85.31	239	4.254054	5.225714	7.371345	239	6.08	0.84	-3.94	-5.97
480	85.31	240	4.254054	5.225714	7.371345	240	6.09	0.85	-3.93	-5.96
482	85.31	241	4.254054	5.225714	7.356725	241	6.08	0.86	-3.93	-5.96
484	85.31	242	4.254054	5.225714	7.327485	242	6.08	0.86	-3.93	-5.96
486	85.31	243	4.254054	5.225714	7.356725	243	6.09	0.87	-3.93	-5.95
488	85.31	244	4.254054	5.225714	7.385965	244	6.08	0.87	-3.93	-5.95
		245	4.254054	5.225714	7.356725	245	6.08	0.88	-3.93	-5.95
		246	4.254054	5.225714	7.342105	246	6.08	0.88	-3.92	-5.94
		247	4.254054	5.225714	7.356725	247	6.08	0.89	-3.92	-5.94
		248	4.254054	5.225714	7.342105	248	6.08	0.9	-3.92	-5.94
		249	4.254054	5.225714	7.356725	249	6.08	0.9	-3.91	-5.93
		250	4.254054	5.225714	7.356725	250	6.09	0.92	-3.9	-5.92
		251	4.254054	5.225714	7.342105	251	6.09	0.93	-3.9	-5.91
		252	4.254054	5.225714	7.327485	252	6.08	0.93	-3.9	-5.92
		253	4.254054	5.225714	7.327485	253	6.08	0.93	-3.9	-5.92
		254	4.254054	5.225714	7.327485	254	6.09	0.94	-3.89	-5.91
		255	4.254054	5.225714	7.327485	255	6.08	0.94	-3.89	-5.9
		256	4.254054	5.225714	7.356725	256	6.08	0.95	-3.89	-5.9
		257	4.254054	5.225714	7.356725	257	6.08	0.96	-3.89	-5.9
		258	4.254054	5.225714	7.312865	258	6.08	0.96	-3.89	-5.89
		259	4.254054	5.225714	7.283626	259	6.09	0.97	-3.88	-5.88
		260	4.254054	5.225714	7.342105	260	6.09	0.98	-3.88	-5.88
		261	4.254054	5.225714	7.371345	261	6.09	0.98	-3.88	-5.88
		262	4.254054	5.225714	7.385965	262	6.09	0.98	-3.88	-5.88
		263	4.254054	5.225714	7.371345	263	6.08	0.98	-3.88	-5.88
		264	4.254054	5.225714	7.356725	264	6.08	0.98	-3.88	-5.88
		265	4.254054	5.225714	7.385965	265	6.09	0.99	-3.88	-5.88
		266	4.254054	5.225714	7.371345	266	6.08	0.99	-3.88	-5.88
		267	4.254054	5.225714	7.371345	267	6.09	1	-3.87	-5.87
		268	4.254054	5.225714	7.400585	268	6.09	1.01	-3.87	-5.86
		269	4.254054	5.225714	7.385965	269	6.1	1.01	-3.86	-5.85
		270	4.254054	5.225714	7.371345	270	6.1	1.02	-3.86	-5.85
		271	4.254054	5.225714	7.356725	271	6.1	1.02	-3.86	-5.85
		272	4.254054	5.225714	7.327485	272	6.09	1.02	-3.87	-5.85

273	4.254054	5.225714	7.312865	273	6.1	1.02	-3.86	-5.84
274	4.254054	5.225714	7.356725	274	6.09	1.03	-3.86	-5.84
275	4.254054	5.225714	7.385965	275	6.1	1.03	-3.86	-5.83
276	4.254054	5.225714	7.371345	276	6.1	1.03	-3.86	-5.83
277	4.254054	5.225714	7.356725	277	6.1	1.04	-3.86	-5.83
278	4.254054	5.225714	7.385965	278	6.1	1.04	-3.86	-5.83
279	4.254054	5.225714	7.356725	279	6.1	1.05	-3.85	-5.82
280	4.254054	5.225714	7.356725	280	6.11	1.05	-3.85	-5.81
281	4.254054	5.225714	7.371345	281	6.11	1.06	-3.84	-5.81
282	4.254054	5.225714	7.400585	282	6.11	1.06	-3.85	-5.81
283	4.254054	5.225714	7.415205	283	6.1	1.06	-3.85	-5.81
284	4.254054	5.225714	7.385965	284	6.11	1.07	-3.84	-5.8
285	4.254054	5.225714	7.400585	285	6.11	1.07	-3.84	-5.8
286	4.254054	5.225714	7.444444	286	6.11	1.07	-3.84	-5.8
287	4.254054	5.225714	7.415205	287	6.11	1.08	-3.83	-5.8
288	4.254054	5.225714	7.371345	288	6.11	1.08	-3.84	-5.8
289	4.254054	5.225714	7.371345	289	6.11	1.08	-3.84	-5.79
290	4.254054	5.225714	7.371345	290	6.12	1.09	-3.83	-5.78
291	4.254054	5.225714	7.400585	291	6.13	1.1	-3.83	-5.77
292	4.254054	5.225714	7.385965	292	6.13	1.1	-3.82	-5.78
293	4.254054	5.225714	7.371345	293	6.13	1.11	-3.82	-5.77
294	4.254054	5.225714	7.371345	294	6.14	1.12	-3.81	-5.76
295	4.254054	5.225714	7.385965	295	6.14	1.12	-3.81	-5.76
296	4.254054	5.225714	7.400585	296	6.13	1.12	-3.82	-5.76
297	4.254054	5.225714	7.429825	297	6.14	1.12	-3.81	-5.76
298	4.254054	5.225714	7.400585	298	6.14	1.13	-3.81	-5.75
299	4.254054	5.225714	7.400585	299	6.14	1.13	-3.81	-5.75
300	4.254054	5.225714	7.400585	300	6.14	1.14	-3.81	-5.74
301	4.254054	5.225714	7.385965	301	6.14	1.13	-3.81	-5.75
302	4.254054	5.225714	7.415205	302	6.13	1.13	-3.82	-5.75
303	4.254054	5.24	7.400585	303	6.14	1.14	-3.81	-5.74
304	4.254054	5.225714	7.415205	304	6.15	1.15	-3.8	-5.73
305	4.254054	5.225714	7.385965	305	6.15	1.15	-3.8	-5.73
306	4.254054	5.225714	7.385965	306	6.15	1.16	-3.8	-5.73
307	4.254054	5.225714	7.371345	307	6.15	1.15	-3.8	-5.73
308	4.254054	5.225714	7.400585	308	6.15	1.16	-3.8	-5.72
309	4.254054	5.225714	7.385965	309	6.15	1.17	-3.79	-5.72
310	4.254054	5.225714	7.371345	310	6.15	1.17	-3.79	-5.72
311	4.254054	5.225714	7.385965	311	6.16	1.18	-3.79	-5.71
312	4.254054	5.225714	7.400585	312	6.15	1.18	-3.79	-5.71
313	4.254054	5.225714	7.400585	313	6.15	1.18	-3.79	-5.71
314	4.254054	5.225714	7.415205	314	6.15	1.17	-3.79	-5.72
315	4.254054	5.225714	7.415205	315	6.15	1.18	-3.79	-5.71
316	4.254054	5.225714	7.415205	316	6.16	1.18	-3.79	-5.71
317	4.254054	5.225714	7.415205	317	6.16	1.18	-3.79	-5.71

318	4.254054	5.225714	7.400585	318	6.16	1.19	-3.79	-5.7
319	4.254054	5.225714	7.385965	319	6.16	1.19	-3.78	-5.7
320	4.254054	5.225714	7.385965	320	6.16	1.2	-3.78	-5.7
321	4.254054	5.225714	7.385965	321	6.17	1.2	-3.78	-5.69
322	4.254054	5.225714	7.400585	322	6.17	1.2	-3.78	-5.69
323	4.254054	5.225714	7.415205	323	6.16	1.2	-3.79	-5.69
324	4.254054	5.225714	7.400585	324	6.17	1.21	-3.78	-5.68
325	4.254054	5.225714	7.400585	325	6.18	1.21	-3.78	-5.68
326	4.254054	5.225714	7.415205	326	6.17	1.22	-3.78	-5.68
327	4.254054	5.225714	7.400585	327	6.18	1.22	-3.78	-5.68
328	4.254054	5.225714	7.385965	328	6.18	1.22	-3.78	-5.68
329	4.254054	5.225714	7.400585	329	6.19	1.23	-3.77	-5.67
330	4.254054	5.225714	7.385965	330	6.19	1.23	-3.77	-5.66
331	4.254054	5.225714	7.385965	331	6.19	1.23	-3.77	-5.66
332	4.254054	5.225714	7.415205	332	6.19	1.24	-3.76	-5.66
333	4.254054	5.225714	7.385965	333	6.19	1.24	-3.76	-5.65
334	4.254054	5.225714	7.400585	334	6.2	1.25	-3.76	-5.65
335	4.254054	5.225714	7.400585	335	6.2	1.25	-3.76	-5.65
336	4.254054	5.225714	7.385965	336	6.19	1.25	-3.76	-5.65
337	4.254054	5.225714	7.385965	337	6.19	1.25	-3.76	-5.65
338	4.254054	5.225714	7.400585	338	6.2	1.26	-3.75	-5.64
339	4.254054	5.225714	7.385965	339	6.2	1.26	-3.75	-5.64
340	4.254054	5.225714	7.385965	340	6.2	1.26	-3.75	-5.64
341	4.254054	5.225714	7.400585	341	6.2	1.27	-3.75	-5.64
342	4.254054	5.225714	7.415205	342	6.21	1.28	-3.74	-5.63
343	4.254054	5.225714	7.415205	343	6.21	1.27	-3.75	-5.63
344	4.254054	5.225714	7.415205	344	6.21	1.28	-3.75	-5.63
345	4.254054	5.225714	7.415205	345	6.21	1.28	-3.74	-5.62
346	4.254054	5.225714	7.444444	346	6.21	1.28	-3.75	-5.62
347	4.254054	5.225714	7.444444	347	6.21	1.28	-3.75	-5.62
348	4.254054	5.225714	7.459064	348	6.22	1.29	-3.74	-5.62
349	4.254054	5.225714	7.459064	349	6.22	1.29	-3.74	-5.61
350	4.254054	5.225714	7.444444	350	6.22	1.3	-3.74	-5.61
351	4.254054	5.225714	7.444444	351	6.23	1.3	-3.74	-5.61
352	4.254054	5.225714	7.459064	352	6.23	1.3	-3.74	-5.61
353	4.254054	5.225714	7.444444	353	6.23	1.3	-3.75	-5.61
354	4.254054	5.225714	7.444444	354	6.24	1.31	-3.74	-5.6
355	4.254054	5.225714	7.429825	355	6.24	1.31	-3.73	-5.6
356	4.254054	5.225714	7.429825	356	6.24	1.31	-3.73	-5.6
357	4.254054	5.225714	7.459064	357	6.24	1.31	-3.74	-5.6
358	4.254054	5.225714	7.429825	358	6.24	1.31	-3.74	-5.61
359	4.254054	5.225714	7.429825	359	6.24	1.31	-3.74	-5.61
360	4.254054	5.225714	7.400585	360	6.25	1.31	-3.74	-5.59
361	4.254054	5.225714	7.415205	361	6.28	1.3	-3.77	-5.57
362	4.254054	5.225714	7.415205	362	6.29	1.3	-3.78	-5.56

363	4.254054	5.225714	7.415205	363	6.29	1.31	-3.78	-5.56
364	4.254054	5.225714	7.429825	364	6.29	1.32	-3.75	-5.57
365	4.254054	5.225714	7.429825	365	6.29	1.31	-3.76	-5.57
366	4.254054	5.225714	7.429825	366	6.3	1.31	-3.78	-5.55
367	4.254054	5.225714	7.385965	367	6.32	1.31	-3.79	-5.54
368	4.254054	5.225714	7.400585	368	6.34	1.32	-3.79	-5.52
369	4.254054	5.225714	7.415205	369	6.37	1.31	-3.86	-5.49
370	4.254054	5.225714	7.444444	370	6.38	1.3	-3.85	-5.5
371	4.254054	5.225714	7.444444	371	6.4	1.3	-3.9	-5.48
372	4.254054	5.225714	7.429825	372	6.46	1.3	-3.99	-5.42
373	4.254054	5.225714	7.415205	373	6.48	1.3	-4.02	-5.41
374	4.254054	5.225714	7.400585	374	6.5	1.3	-4.04	-5.41
375	4.254054	5.225714	7.400585	375	6.52	1.31	-4.05	-5.39
376	4.254054	5.225714	7.429825	376	6.54	1.32	-4.04	-5.38
377	4.254054	5.225714	7.400585	377	6.55	1.32	-4.04	-5.37
378	4.254054	5.225714	7.400585	378	6.56	1.32	-4.05	-5.37
379	4.254054	5.225714	7.400585	379	6.57	1.32	-4.05	-5.37
380	4.254054	5.225714	7.385965	380	6.57	1.32	-4.06	-5.36
381	4.254054	5.225714	7.400585	381	6.58	1.33	-4.05	-5.35
382	4.254054	5.225714	7.415205	382	6.59	1.33	-4.05	-5.35
383	4.254054	5.225714	7.400585	383	6.59	1.34	-4.05	-5.34
384	4.254054	5.225714	7.415205	384	6.59	1.34	-4.05	-5.33
385	4.254054	5.225714	7.429825	385	6.6	1.35	-4.04	-5.32
386	4.254054	5.225714	7.415205	386	6.6	1.36	-4.03	-5.32
387	4.254054	5.225714	7.429825	387	6.61	1.36	-4.04	-5.31
388	4.254054	5.225714	7.400585	388	6.61	1.38	-4.05	-5.29
389	4.254054	5.225714	7.400585	389	6.6	1.38	-4.05	-5.28
390	4.254054	5.225714	7.385965	390	6.59	1.39	-4.06	-5.27
391	4.254054	5.225714	7.429825	391	6.59	1.41	-4.07	-5.25
392	4.254054	5.225714	7.429825	392	6.59	1.42	-4.07	-5.23
393	4.254054	5.225714	7.415205	393	6.59	1.43	-4.09	-5.22
394	4.254054	5.225714	7.429825	394	6.58	1.43	-4.09	-5.21
395	4.254054	5.225714	7.444444	395	6.58	1.45	-4.1	-5.18
396	4.254054	5.225714	7.415205	396	6.58	1.47	-4.11	-5.18
397	4.254054	5.225714	7.415205	397	6.57	1.47	-4.12	-5.17
398	4.254054	5.225714	7.415205	398	6.56	1.48	-4.12	-5.16
399	4.254054	5.225714	7.415205	399	6.55	1.49	-4.15	-5.14
400	4.254054	5.225714	7.385965	400	6.55	1.51	-4.16	-5.13
401	4.254054	5.225714	7.415205	401	6.54	1.51	-4.17	-5.12
402	4.254054	5.225714	7.429825	402	6.53	1.52	-4.18	-5.13
403	4.254054	5.225714	7.444444	403	6.53	1.53	-4.18	-5.11
404	4.254054	5.225714	7.415205	404	6.51	1.54	-4.19	-5.1
405	4.254054	5.225714	7.444444	405	6.51	1.54	-4.2	-5.11
406	4.254054	5.225714	7.429825	406	6.51	1.54	-4.2	-5.11
407	4.254054	5.225714	7.400585	407	6.5	1.55	-4.21	-5.09

408	4.254054	5.225714	7.429825	408	6.5	1.56	-4.22	-5.07
409	4.254054	5.225714	7.459064	409	6.49	1.58	-4.23	-5.06
410	4.254054	5.225714	7.429825	410	6.49	1.59	-4.23	-5.05
411	4.254054	5.225714	7.429825	411	6.49	1.59	-4.24	-5.04
412	4.254054	5.225714	7.415205	412	6.48	1.6	-4.24	-5.03
413	4.254054	5.225714	7.415205	413	6.48	1.6	-4.23	-5.03
414	4.254054	5.225714	7.444444	414	6.48	1.61	-4.24	-5.03
415	4.254054	5.225714	7.429825	415	6.46	1.6	-4.25	-5.02
416	4.254054	5.225714	7.444444	416	6.46	1.61	-4.24	-5.01
417	4.254054	5.225714	7.444444	417	6.46	1.61	-4.25	-5.01
418	4.254054	5.225714	7.444444	418	6.45	1.62	-4.25	-5.01
419	4.254054	5.225714	7.429825	419	6.46	1.62	-4.24	-5
420	4.254054	5.225714	7.415205	420	6.45	1.61	-4.25	-5
421	4.254054	5.225714	7.429825	421	6.45	1.61	-4.26	-5
422	4.254054	5.225714	7.429825	422	6.46	1.62	-4.25	-4.99
423	4.254054	5.225714	7.415205	423	6.46	1.62	-4.25	-4.98
424	4.254054	5.225714	7.415205	424	6.46	1.62	-4.25	-4.99
425	4.254054	5.225714	7.459064	425	6.46	1.62	-4.25	-4.98
426	4.254054	5.225714	7.429825	426	6.46	1.62	-4.25	-4.98
427	4.254054	5.225714	7.429825	427	6.46	1.63	-4.24	-4.98
428	4.254054	5.225714	7.444444	428	6.45	1.63	-4.25	-4.97
429	4.254054	5.225714	7.459064	429	6.45	1.62	-4.25	-4.97
430	4.254054	5.225714	7.444444	430	6.45	1.62	-4.25	-4.98
431	4.254054	5.225714	7.459064	431	6.46	1.63	-4.24	-4.96
432	4.254054	5.225714	7.459064	432	6.45	1.63	-4.25	-4.97
433	4.254054	5.225714	7.429825	433	6.45	1.62	-4.25	-4.96
434	4.254054	5.225714	7.429825	434	6.46	1.63	-4.25	-4.94
435	4.254054	5.225714	7.415205	435	6.47	1.64	-4.24	-4.95
436	4.254054	5.225714	7.429825	436	6.46	1.62	-4.25	-4.96
437	4.254054	5.225714	7.444444	437	6.46	1.62	-4.25	-4.96
438	4.254054	5.225714	7.459064	438	6.47	1.64	-4.23	-4.94
439	4.254054	5.225714	7.444444	439	6.47	1.65	-4.23	-4.93
440	4.254054	5.24	7.429825	440	6.47	1.65	-4.23	-4.94
441	4.254054	5.225714	7.444444	441	6.47	1.64	-4.23	-4.92
442	4.254054	5.225714	7.415205	442	6.47	1.64	-4.23	-4.93
443	4.254054	5.225714	7.429825	443	6.48	1.65	-4.22	-4.92
444	4.254054	5.225714	7.385965	444	6.47	1.65	-4.22	-4.92
445	4.254054	5.225714	7.415205	445	6.47	1.65	-4.23	-4.93
446	4.254054	5.225714	7.429825	446	6.48	1.65	-4.23	-4.92
447	4.254054	5.225714	7.429825	447	6.48	1.65	-4.22	-4.93
448	4.254054	5.225714	7.415205	448	6.48	1.65	-4.23	-4.91
449	4.254054	5.225714	7.459064	449	6.48	1.65	-4.22	-4.91
450	4.254054	5.225714	7.459064	450	6.48	1.65	-4.22	-4.92
451	4.254054	5.225714	7.473684	451	6.48	1.65	-4.22	-4.9
452	4.254054	5.225714	7.429825	452	6.48	1.65	-4.22	-4.89

453	4.254054	5.225714	7.415205	453	6.48	1.65	-4.21	-4.89
454	4.254054	5.225714	7.415205	454	6.48	1.65	-4.22	-4.89
455	4.254054	5.225714	7.429825	455	6.48	1.65	-4.22	-4.88
456	4.254054	5.225714	7.444444	456	6.48	1.65	-4.22	-4.88
457	4.254054	5.225714	7.444444	457	6.48	1.66	-4.21	-4.88
458	4.254054	5.225714	7.473684	458	6.48	1.65	-4.21	-4.88
459	4.254054	5.225714	7.444444	459	6.48	1.65	-4.2	-4.86
460	4.254054	5.225714	7.415205	460	6.48	1.66	-4.2	-4.86
461	4.254054	5.225714	7.429825	461	6.49	1.67	-4.19	-4.84
462	4.254054	5.24	7.473684	462	6.48	1.67	-4.2	-4.86
463	4.254054	5.225714	7.444444	463	6.47	1.66	-4.2	-4.86
464	4.254054	5.225714	7.459064	464	6.48	1.67	-4.2	-4.84
465	4.254054	5.225714	7.459064	465	6.48	1.67	-4.21	-4.83
466	4.254054	5.225714	7.459064	466	6.49	1.68	-4.2	-4.84
467	4.254054	5.225714	7.415205	467	6.49	1.68	-4.2	-4.84
468	4.254054	5.225714	7.429825	468	6.49	1.68	-4.2	-4.83
469	4.254054	5.225714	7.459064	469	6.48	1.68	-4.19	-4.82
470	4.254054	5.225714	7.459064	470	6.49	1.68	-4.19	-4.81
471	4.254054	5.225714	7.473684	471	6.49	1.69	-4.19	-4.82
472	4.254054	5.225714	7.473684	472	6.48	1.69	-4.2	-4.81
473	4.254054	5.225714	7.459064	473	6.48	1.69	-4.2	-4.82
474	4.254054	5.225714	7.488304	474	6.47	1.69	-4.2	-4.82
475	4.254054	5.225714	7.444444	475	6.47	1.68	-4.2	-4.83
476	4.254054	5.225714	7.444444	476	6.48	1.67	-4.19	-4.81
477	4.254054	5.225714	7.444444	477	6.48	1.68	-4.19	-4.82
478	4.254054	5.225714	7.429825	478	6.48	1.69	-4.19	-4.81
479	4.254054	5.225714	7.459064	479	6.48	1.68	-4.19	-4.81
480	4.254054	5.225714	7.429825	480	6.48	1.69	-4.18	-4.81
481	4.254054	5.225714	7.444444	481	6.48	1.68	-4.19	-4.8
482	4.254054	5.225714	7.444444	482	6.48	1.68	-4.18	-4.79
483	4.254054	5.24	7.429825	483	6.48	1.69	-4.18	-4.78
484	4.254054	5.225714	7.444444	484	6.48	1.69	-4.18	-4.78
485	4.254054	5.225714	7.473684	485	6.48	1.69	-4.18	-4.79
486	4.254054	5.225714	7.459064	486	6.47	1.69	-4.19	-4.81
487	4.254054	5.225714	7.459064	487	6.48	1.7	-4.18	-4.8
488	4.254054	5.225714	7.473684	488	6.48	1.7	-4.18	-4.8

Control_exp_5

Experiment type: Control experiment. This experiment consisted of just JSC Mars-1, 2 cm thick,

364.08 g. There was not a humidity buffer inside the chamber. Chiller was set to -38°C.

Temperature around the sample was controlled by the chiller.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= humidity buffer 3= atmosphere 4= sample

Mass Min.	Mass	RH Min.	Ch02	Ch03	Ch04	T Min.	Ch01	Ch02	Ch03	Ch04
0	365.39	0	1.272973	6.731429	2.05848	0	7.52	-15.95	-15.53	-29.16
2	364.25	1	1.813514	7.474286	1.488304	1	0.69	-17.06	-16.67	-29.36
4	363.46	2	2.097297	8.031429	0.991228	2	-6.44	-21.7	-21.56	-31.71
6	363.04	3	2.07027	8.645714	0.552632	3	-4.5	-20.42	-23.59	-31.78
8	362.94	4	2.218919	9.302857	0.289474	4	-4.24	-18.66	-22.66	-29.65
10	362.96	5	2.516216	9.245714	0.157895	5	-3.63	-18.11	-22.02	-28.89
12	362.97	6	2.867568	8.488571	0.099415	6	-3.06	-17.68	-21.79	-28.52
14	362.97	7	3.178378	7.531429	0.084795	7	-2.41	-17.18	-21.31	-28.19
16	362.98	8	3.286486	6.731429	0.032164	8	-2.04	-16.72	-20.77	-27.86
18	362.99	9	3.205405	6.045714	0.119883	9	-2.04	-16.35	-20.29	-27.6
20	362.99	10	2.908108	5.474286	0.222222	10	-2.05	-16.03	-19.97	-27.4
22	362.99	11	2.489189	4.917143	0.339181	11	-2.07	-15.77	-19.79	-27.24
24	363	12	2.07027	4.36	0.47076	12	-2.12	-15.57	-19.71	-27.11
26	363.02	13	1.678378	3.917143	0.52924	13	-2.16	-15.39	-19.65	-27.01
28	363	14	1.367568	3.574286	0.631579	14	-2.2	-15.25	-19.62	-26.92
30	363.08	15	1.043243	3.174286	0.719298	15	-2.23	-15.11	-19.58	-26.85
32	363.01	16	0.732432	2.831429	0.748538	16	-2.26	-15	-19.54	-26.79
34	363.01	17	0.489189	2.588571	0.777778	17	-2.29	-14.89	-19.51	-26.73
36	363.01	18	0.367568	2.345714	0.792398	18	-2.33	-14.8	-19.48	-26.68
38	363.01	19	0.259459	2.102857	0.865497	19	-2.35	-14.71	-19.45	-26.64
40	363.02	20	0.124324	1.831429	0.850877	20	-2.37	-14.61	-19.41	-26.58
42	363.01	21	0.083784	1.631429	0.821637	21	-2.4	-14.53	-19.39	-26.54
44	363.06	22	0.016216	1.488571	0.865497	22	-2.39	-14.44	-19.34	-26.5
46	363.03	23	0.037838	1.388571	0.850877	23	-2.42	-14.4	-19.26	-26.49
48	363.03	24	0.064865	1.245714	0.792398	24	-2.46	-14.34	-19.27	-26.46
50	363.04	25	0.105405	1.117143	0.792398	25	-2.48	-14.26	-19.29	-26.42
52	363.04	26	0.105405	1.06	0.733918	26	-2.48	-14.18	-19.29	-26.38
54	363.04	27	0.132432	0.974286	0.660819	27	-2.45	-14.11	-19.17	-26.36
56	363.04	28	0.091892	0.931429	0.631579	28	-2.51	-14.08	-19.18	-26.34
58	363.04	29	0.091892	0.874286	0.573099	29	-2.51	-14.01	-19.2	-26.31
60	363.05	30	0.051351	0.831429	0.51462	30	-2.51	-13.96	-19.13	-26.3
62	363.05	31	0.051351	0.788571	0.55848	31	-2.55	-13.92	-19.16	-26.27
64	363.07	32	0.051351	0.745714	0.52924	32	-2.52	-13.84	-19.15	-26.23
66	363.07	33	0.002703	0.717143	0.48538	33	-2.54	-13.81	-19.09	-26.22
68	363.06	34	0.02973	0.688571	0.47076	34	-2.58	-13.76	-19.12	-26.19
70	363.05	35	0.043243	0.702857	0.44152	35	-2.53	-13.68	-19.08	-26.14
72	363.06	36	0.097297	0.688571	0.383041	36	-2.56	-13.65	-19.05	-26.13
74	363.06	37	0.097297	0.688571	0.280702	37	-2.56	-13.59	-19.08	-26.09

76	363.06	38	0.151351	0.702857	0.207602	38	-2.54	-13.55	-19	-26.07
78	363.08	39	0.164865	0.674286	0.178363	39	-2.58	-13.52	-19.02	-26.05
80	363.07	40	0.178378	0.645714	0.207602	40	-2.55	-13.46	-19.02	-26.02
82	363.07	41	0.164865	0.66	0.222222	41	-2.58	-13.44	-18.98	-26
84	363.07	42	0.205405	0.674286	0.119883	42	-2.57	-13.39	-19	-25.96
86	363.08	43	0.245946	0.66	0.076023	43	-2.57	-13.36	-18.95	-25.95
88	363.07	44	0.272973	0.645714	0.032164	44	-2.6	-13.33	-18.99	-25.93
90	363.08	45	0.3	0.617143	0.017544	45	-2.55	-13.27	-18.93	-25.9
92	363.1	46	0.3	0.588571	0.061404	46	-2.61	-13.26	-18.96	-25.89
94	363.08	47	0.3	0.602857	0.011696	47	-2.56	-13.2	-18.93	-25.86
96	363.08	48	0.367568	0.631429	0.114035	48	-2.6	-13.19	-18.92	-25.85
98	363.09	49	0.354054	0.66	0.128655	49	-2.61	-13.15	-18.94	-25.82
100	363.11	50	0.340541	0.702857	0.143275	50	-2.57	-13.08	-18.93	-25.78
102	363.09	51	0.381081	0.674286	0.157895	51	-2.58	-13.07	-18.88	-25.77
104	363.09	52	0.435135	0.674286	0.172515	52	-2.6	-13.03	-18.9	-25.74
106	363.12	53	0.448649	0.66	0.216374	53	-2.6	-12.98	-18.92	-25.7
108	363.09	54	0.475676	0.688571	0.260234	54	-2.54	-12.93	-18.85	-25.67
110	363.09	55	0.475676	0.702857	0.289474	55	-2.57	-12.92	-18.84	-25.66
112	363.13	56	0.502703	0.702857	0.391813	56	-2.59	-12.88	-18.87	-25.62
114	363.1	57	0.502703	0.745714	0.377193	57	-2.53	-12.82	-18.81	-25.59
116	363.1	58	0.502703	0.717143	0.391813	58	-2.56	-12.81	-18.79	-25.58
118	363.14	59	0.52973	0.717143	0.377193	59	-2.58	-12.78	-18.83	-25.55
120	363.11	60	0.57027	0.702857	0.362573	60	-2.52	-12.73	-18.76	-25.52
122	363.12	61	0.624324	0.702857	0.406433	61	-2.57	-12.73	-18.78	-25.5
124	363.12	62	0.597297	0.688571	0.406433	62	-2.52	-12.67	-18.76	-25.46
126	363.12	63	0.624324	0.674286	0.450292	63	-2.54	-12.66	-18.72	-25.44
128	363.12	64	0.637838	0.674286	0.494152	64	-2.55	-12.63	-18.75	-25.41
130	363.12	65	0.637838	0.688571	0.538012	65	-2.52	-12.59	-18.69	-25.39
132	363.12	66	0.637838	0.717143	0.552632	66	-2.54	-12.57	-18.73	-25.36
134	363.12	67	0.664865	0.731429	0.508772	67	-2.5	-12.53	-18.66	-25.33
136	363.15	68	0.651351	0.702857	0.538012	68	-2.5	-12.5	-18.66	-25.3
138	363.13	69	0.678378	0.731429	0.640351	69	-2.53	-12.49	-18.66	-25.29
140	363.13	70	0.732432	0.745714	0.611111	70	-2.49	-12.44	-18.64	-25.25
142	363.13	71	0.745946	0.731429	0.640351	71	-2.52	-12.43	-18.64	-25.23
144	363.13	72	0.718919	0.717143	0.684211	72	-2.48	-12.38	-18.61	-25.19
146	363.13	73	0.759459	0.731429	0.625731	73	-2.51	-12.37	-18.63	-25.17
148	363.13	74	0.8	0.731429	0.654971	74	-2.47	-12.34	-18.58	-25.15
150	363.13	75	0.867568	0.688571	0.625731	75	-2.49	-12.32	-18.61	-25.12
152	363.14	76	0.840541	0.702857	0.581871	76	-2.48	-12.3	-18.56	-25.1
154	363.14	77	0.840541	0.688571	0.625731	77	-2.46	-12.26	-18.57	-25.05
156	363.14	78	0.827027	0.66	0.69883	78	-2.49	-12.25	-18.56	-25.03
158	363.14	79	0.827027	0.717143	0.625731	79	-2.45	-12.21	-18.54	-25
160	363.14	80	0.867568	0.688571	0.640351	80	-2.46	-12.19	-18.55	-24.97
162	363.14	81	0.827027	0.688571	0.69883	81	-2.48	-12.18	-18.53	-24.95
164	363.14	82	0.827027	0.674286	0.654971	82	-2.45	-12.14	-18.52	-24.93

166	363.15	83	0.8	0.674286	0.625731	83	-2.45	-12.12	-18.52	-24.9
168	363.15	84	0.786486	0.688571	0.640351	84	-2.47	-12.11	-18.51	-24.88
170	363.15	85	0.772973	0.702857	0.69883	85	-2.46	-12.09	-18.49	-24.85
172	363.15	86	0.732432	0.688571	0.71345	86	-2.43	-12.05	-18.47	-24.82
174	363.17	87	0.718919	0.674286	0.74269	87	-2.44	-12.04	-18.48	-24.8
176	363.15	88	0.718919	0.617143	0.684211	88	-2.45	-12.02	-18.48	-24.78
178	363.17	89	0.732432	0.674286	0.640351	89	-2.45	-12	-18.46	-24.75
180	363.15	90	0.705405	0.588571	0.640351	90	-2.42	-11.96	-18.44	-24.72
182	363.14	91	0.705405	0.617143	0.669591	91	-2.42	-11.93	-18.43	-24.68
184	363.19	92	0.678378	0.588571	0.669591	92	-2.44	-11.92	-18.44	-24.66
186	363.15	93	0.705405	0.602857	0.611111	93	-2.39	-11.89	-18.39	-24.64
188	363.16	94	0.678378	0.617143	0.640351	94	-2.42	-11.88	-18.43	-24.61
190	363.14	95	0.664865	0.631429	0.625731	95	-2.41	-11.86	-18.39	-24.59
192	363.17	96	0.651351	0.574286	0.611111	96	-2.4	-11.83	-18.4	-24.57
194	363.15	97	0.651351	0.56	0.581871	97	-2.41	-11.82	-18.4	-24.54
196	363.15	98	0.624324	0.574286	0.581871	98	-2.39	-11.79	-18.35	-24.52
198	363.15	99	0.624324	0.56	0.567251	99	-2.38	-11.76	-18.36	-24.49
200	363.15	100	0.651351	0.574286	0.581871	100	-2.41	-11.76	-18.37	-24.48
202	363.17	101	0.624324	0.545714	0.552632	101	-2.38	-11.73	-18.33	-24.45
204	363.15	102	0.57027	0.56	0.538012	102	-2.37	-11.7	-18.34	-24.42
206	363.15	103	0.597297	0.56	0.552632	103	-2.4	-11.7	-18.34	-24.4
208	363.15	104	0.610811	0.46	0.552632	104	-2.36	-11.66	-18.3	-24.37
210	363.15	105	0.57027	0.46	0.538012	105	-2.36	-11.64	-18.3	-24.34
212	363.15	106	0.556757	0.46	0.421053	106	-2.39	-11.64	-18.31	-24.33
214	363.15	107	0.543243	0.417143	0.450292	107	-2.34	-11.6	-18.27	-24.3
216	363.15	108	0.52973	0.417143	0.464912	108	-2.34	-11.58	-18.27	-24.27
218	363.15	109	0.543243	0.417143	0.479532	109	-2.38	-11.58	-18.27	-24.26
220	363.15	110	0.502703	0.388571	0.464912	110	-2.33	-11.55	-18.24	-24.23
222	363.15	111	0.475676	0.274286	0.450292	111	-2.33	-11.52	-18.24	-24.21
224	363.15	112	0.489189	0.317143	0.377193	112	-2.36	-11.52	-18.24	-24.19
226	363.15	113	0.475676	0.331429	0.435673	113	-2.32	-11.48	-18.2	-24.16
228	363.16	114	0.475676	0.302857	0.362573	114	-2.32	-11.47	-18.21	-24.14
230	363.15	115	0.462162	0.26	0.318713	115	-2.35	-11.47	-18.21	-24.13
232	363.15	116	0.421622	0.274286	0.362573	116	-2.31	-11.43	-18.17	-24.1
234	363.15	117	0.408108	0.26	0.347953	117	-2.32	-11.42	-18.19	-24.09
236	363.18	118	0.394595	0.217143	0.333333	118	-2.34	-11.42	-18.18	-24.07
238	363.15	119	0.367568	0.188571	0.289474	119	-2.29	-11.38	-18.14	-24.04
240	363.18	120	0.367568	0.188571	0.260234	120	-2.3	-11.37	-18.16	-24.02
242	363.15	121	0.367568	0.131429	0.245614	121	-2.33	-11.36	-18.15	-24.01
244	363.14	122	0.286486	0.102857	0.187135	122	-2.28	-11.33	-18.12	-23.99
246	363.14	123	0.272973	0.045714	0.172515	123	-2.29	-11.31	-18.12	-23.96
248	363.14	124	0.259459	0.045714	0.187135	124	-2.3	-11.3	-18.11	-23.94
250	363.14	125	0.232432	0.017143	0.201754	125	-2.29	-11.29	-18.09	-23.93
252	363.15	126	0.245946	0.054286	0.084795	126	-2.27	-11.26	-18.08	-23.91
254	363.17	127	0.218919	0.068571	0.114035	127	-2.27	-11.24	-18.08	-23.88

256	363.14	128	0.178378	0.068571	0.099415	128	-2.29	-11.24	-18.08	-23.87
258	363.14	129	0.164865	0.082857	0.070175	129	-2.28	-11.23	-18.05	-23.86
260	363.15	130	0.151351	0.125714	0.011696	130	-2.26	-11.21	-18.04	-23.83
262	363.17	131	0.124324	0.197143	0.119883	131	-2.26	-11.19	-18.04	-23.81
264	363.14	132	0.097297	0.211429	0.134503	132	-2.27	-11.18	-18.04	-23.8
266	363.18	133	0.02973	0.268571	0.076023	133	-2.26	-11.17	-18.01	-23.78
268	363.14	134	0.016216	0.34	0.134503	134	-2.25	-11.15	-18.01	-23.76
270	363.17	135	0.024324	0.397143	0.163743	135	-2.24	-11.13	-18.01	-23.74
272	363.14	136	0.078378	0.397143	0.236842	136	-2.26	-11.12	-18	-23.72
274	363.14	137	0.118919	0.368571	0.236842	137	-2.24	-11.1	-17.97	-23.71
276	363.14	138	0.145946	0.44	0.266082	138	-2.22	-11.08	-17.96	-23.68
278	363.14	139	0.186486	0.482857	0.368421	139	-2.22	-11.07	-17.96	-23.66
280	363.14	140	0.227027	0.497143	0.383041	140	-2.25	-11.07	-17.97	-23.66
282	363.14	141	0.240541	0.525714	0.44152	141	-2.22	-11.04	-17.93	-23.64
284	363.14	142	0.267568	0.525714	0.45614	142	-2.21	-11.02	-17.94	-23.61
286	363.14	143	0.294595	0.582857	0.55848	143	-2.23	-11.02	-17.95	-23.59
288	363.14	144	0.308108	0.64	0.52924	144	-2.22	-11	-17.91	-23.58
290	363.14	145	0.348649	0.711429	0.573099	145	-2.2	-10.99	-17.92	-23.56
292	363.14	146	0.362162	0.782857	0.675439	146	-2.23	-10.99	-17.92	-23.55
294	363.14	147	0.42973	0.868571	0.733918	147	-2.21	-10.97	-17.89	-23.53
296	363.14	148	0.47027	0.897143	0.792398	148	-2.2	-10.95	-17.88	-23.52
298	363.14	149	0.497297	0.94	0.807018	149	-2.19	-10.94	-17.88	-23.49
300	363.14	150	0.524324	0.982857	0.865497	150	-2.21	-10.93	-17.88	-23.48
302	363.16	151	0.551351	1.011429	0.865497	151	-2.21	-10.93	-17.86	-23.47
304	363.14	152	0.578378	1.025714	0.880117	152	-2.18	-10.9	-17.85	-23.45
306	363.14	153	0.645946	1.068571	0.938596	153	-2.19	-10.89	-17.85	-23.44
308	363.15	154	0.672973	1.154286	1.011696	154	-2.2	-10.89	-17.85	-23.42
310	363.14	155	0.7	1.225714	1.084795	155	-2.2	-10.87	-17.82	-23.41
312	363.14	156	0.7	1.24	1.157895	156	-2.17	-10.86	-17.81	-23.39
314	363.16	157	0.754054	1.254286	1.230994	157	-2.18	-10.85	-17.82	-23.38
316	363.15	158	0.767568	1.34	1.274854	158	-2.19	-10.85	-17.82	-23.36
318	363.14	159	0.821622	1.382857	1.289474	159	-2.2	-10.84	-17.8	-23.35
320	363.15	160	0.875676	1.482857	1.347953	160	-2.17	-10.82	-17.79	-23.34
322	363.14	161	0.916216	1.525714	1.435673	161	-2.17	-10.81	-17.79	-23.32
324	363.14	162	0.943243	1.525714	1.435673	162	-2.17	-10.79	-17.78	-23.3
326	363.16	163	0.97027	1.611429	1.508772	163	-2.19	-10.8	-17.78	-23.3
328	363.15	164	1.010811	1.64	1.479532	164	-2.15	-10.77	-17.75	-23.28
330	363.16	165	1.091892	1.625714	1.552632	165	-2.14	-10.75	-17.74	-23.26
332	363.15	166	1.132432	1.654286	1.625731	166	-2.14	-10.75	-17.75	-23.25
334	363.17	167	1.145946	1.711429	1.69883	167	-2.17	-10.75	-17.74	-23.24
336	363.14	168	1.186486	1.725714	1.72807	168	-2.13	-10.72	-17.72	-23.22
338	363.17	169	1.213514	1.811429	1.75731	169	-2.13	-10.71	-17.72	-23.21
340	363.15	170	1.281081	1.897143	1.874269	170	-2.14	-10.71	-17.72	-23.19
342	363.15	171	1.348649	1.954286	1.976608	171	-2.16	-10.71	-17.71	-23.19
344	363.15	172	1.375676	1.997143	2.005848	172	-2.12	-10.68	-17.69	-23.16

346	363.15	173	1.416216	1.982857	2.078947	173	-2.14	-10.69	-17.72	-23.16
348	363.15	174	1.443243	2.011429	2.093567	174	-2.16	-10.69	-17.7	-23.15
350	363.17	175	1.497297	2.068571	2.210526	175	-2.11	-10.66	-17.67	-23.13
352	363.15	176	1.524324	2.111429	2.254386	176	-2.11	-10.65	-17.67	-23.12
354	363.15	177	1.564865	2.125714	2.254386	177	-2.12	-10.64	-17.68	-23.11
356	363.15	178	1.605405	2.154286	2.356725	178	-2.14	-10.64	-17.67	-23.1
358	363.17	179	1.618919	2.197143	2.488304	179	-2.1	-10.62	-17.65	-23.08
360	363.15	180	1.659459	2.225714	2.488304	180	-2.12	-10.62	-17.67	-23.07
362	363.15	181	1.727027	2.297143	2.546784	181	-2.14	-10.62	-17.66	-23.07
364	363.15	182	1.7	2.34	2.576023	182	-2.1	-10.6	-17.64	-23.05
366	363.15	183	1.740541	2.382857	2.663743	183	-2.11	-10.59	-17.65	-23.03
368	363.15	184	1.794595	2.397143	2.780702	184	-2.13	-10.6	-17.64	-23.03
370	363.15	185	1.835135	2.397143	2.824561	185	-2.1	-10.58	-17.63	-23.01
372	363.15	186	1.862162	2.454286	2.853801	186	-2.1	-10.57	-17.63	-23
374	363.15	187	1.875676	2.497143	2.926901	187	-2.12	-10.57	-17.63	-22.99
376	363.15	188	1.902703	2.554286	2.98538	188	-2.11	-10.56	-17.61	-22.98
378	363.15	189	1.916216	2.525714	3	189	-2.1	-10.54	-17.6	-22.96
380	363.15	190	1.92973	2.568571	3.087719	190	-2.1	-10.53	-17.6	-22.95
382	363.15	191	1.956757	2.597143	3.160819	191	-2.11	-10.53	-17.61	-22.94
384	363.15	192	1.97027	2.582857	3.146199	192	-2.11	-10.53	-17.59	-22.93
386	363.17	193	1.983784	2.625714	3.175439	193	-2.09	-10.51	-17.58	-22.92
388	363.15	194	2.078378	2.682857	3.190058	194	-2.09	-10.5	-17.58	-22.9
390	363.15	195	2.064865	2.711429	3.219298	195	-2.1	-10.5	-17.58	-22.89
392	363.2	196	2.064865	2.74	3.307018	196	-2.1	-10.49	-17.56	-22.88
394	363.15	197	2.118919	2.754286	3.336257	197	-2.07	-10.47	-17.55	-22.86
396	363.17	198	2.145946	2.768571	3.350877	198	-2.08	-10.47	-17.56	-22.85
398	363.15	199	2.2	2.797143	3.423977	199	-2.1	-10.47	-17.55	-22.85
400	363.15	200	2.227027	2.797143	3.467836	200	-2.07	-10.45	-17.53	-22.83
402	363.15	201	2.254054	2.84	3.453216	201	-2.07	-10.45	-17.55	-22.82
404	363.15	202	2.227027	2.925714	3.511696	202	-2.11	-10.46	-17.55	-22.83
406	363.16	203	2.267568	2.925714	3.599415	203	-2.06	-10.43	-17.52	-22.8
408	363.15	204	2.281081	2.954286	3.657895	204	-2.07	-10.42	-17.53	-22.79
410	363.17	205	2.294595	3.025714	3.730994	205	-2.09	-10.42	-17.52	-22.78
412	363.12	206	2.308108	3.04	3.804094	206	-2.07	-10.42	-17.5	-22.77
414	363.18	207	2.321622	3.025714	3.833333	207	-2.07	-10.41	-17.52	-22.76
416	363.15	208	2.362162	3.025714	3.891813	208	-2.09	-10.42	-17.52	-22.76
418	363.16	209	2.375676	3.068571	3.935673	209	-2.07	-10.4	-17.49	-22.75
420	363.15	210	2.42973	3.054286	3.964912	210	-2.06	-10.39	-17.5	-22.73
422	363.18	211	2.47027	3.068571	4.038012	211	-2.08	-10.39	-17.51	-22.73
424	363.15	212	2.47027	3.097143	4.096491	212	-2.08	-10.38	-17.48	-22.72
426	363.15	213	2.47027	3.154286	4.169591	213	-2.06	-10.37	-17.49	-22.7
428	363.15	214	2.524324	3.211429	4.22807	214	-2.08	-10.37	-17.5	-22.69
430	363.16	215	2.537838	3.211429	4.25731	215	-2.08	-10.37	-17.47	-22.69
432	363.15	216	2.578378	3.197143	4.25731	216	-2.06	-10.36	-17.48	-22.68
434	363.15	217	2.578378	3.168571	4.30117	217	-2.07	-10.35	-17.49	-22.67

436	363.17	218	2.564865	3.225714	4.359649	218	-2.08	-10.35	-17.46	-22.66
438	363.15	219	2.632432	3.24	4.374269	219	-2.05	-10.33	-17.46	-22.65
440	363.18	220	2.672973	3.297143	4.461988	220	-2.05	-10.32	-17.46	-22.63
442	363.15	221	2.713514	3.311429	4.476608	221	-2.08	-10.33	-17.46	-22.63
444	363.16	222	2.740541	3.368571	4.520468	222	-2.04	-10.31	-17.43	-22.61
446	363.17	223	2.740541	3.382857	4.505848	223	-2.03	-10.3	-17.43	-22.59
448	363.16	224	2.754054	3.44	4.564327	224	-2.05	-10.29	-17.44	-22.58
450	363.15	225	2.767568	3.454286	4.564327	225	-2.05	-10.29	-17.42	-22.58
452	363.17	226	2.808108	3.411429	4.608187	226	-2.03	-10.28	-17.42	-22.57
454	363.15	227	2.821622	3.454286	4.608187	227	-2.04	-10.27	-17.43	-22.55
456	363.15	228	2.821622	3.468571	4.622807	228	-2.06	-10.28	-17.42	-22.56
458	363.16	229	2.808108	3.54	4.695906	229	-2.03	-10.27	-17.42	-22.54
460	363.16	230	2.848649	3.54	4.812865	230	-2.04	-10.26	-17.43	-22.53
462	363.16	231	2.875676	3.497143	4.783626	231	-2.06	-10.27	-17.42	-22.53
464	363.15	232	2.889189	3.54	4.827485	232	-2.03	-10.25	-17.39	-22.52
466	363.16	233	2.875676	3.597143	4.798246	233	-2.03	-10.24	-17.4	-22.51
468	363.16	234	2.902703	3.625714	4.842105	234	-2.04	-10.25	-17.41	-22.51
470	363.17	235	2.92973	3.611429	4.856725	235	-2.05	-10.25	-17.41	-22.5
472	363.15	236	2.97027	3.597143	4.871345	236	-2.05	-10.24	-17.39	-22.49
474	363.17	237	2.97027	3.582857	4.885965	237	-2.03	-10.23	-17.39	-22.49
476	363.15	238	2.983784	3.611429	4.959064	238	-2.02	-10.22	-17.39	-22.47
478	363.15	239	3.010811	3.611429	4.973684	239	-2.04	-10.22	-17.4	-22.47
480	363.16	240	2.983784	3.654286	5.002924	240	-2.05	-10.22	-17.38	-22.46
482	363.15	241	3.024324	3.64	4.988304	241	-2.02	-10.21	-17.38	-22.45
484	363.16	242	3.037838	3.654286	4.973684	242	-2.03	-10.2	-17.4	-22.44
486	363.16	243	3.037838	3.668571	4.959064	243	-2.06	-10.21	-17.38	-22.44
488	363.16	244	3.037838	3.64	5.017544	244	-2.02	-10.19	-17.36	-22.42
490	363.16	245	3.064865	3.668571	5.046784	245	-2.02	-10.18	-17.38	-22.41
492	363.16	246	3.091892	3.668571	5.105263	246	-2.04	-10.19	-17.38	-22.41
494	363.16	247	3.051351	3.725714	5.090643	247	-2.04	-10.18	-17.36	-22.41
496	363.16	248	3.091892	3.711429	5.119883	248	-2.01	-10.16	-17.35	-22.38
498	363.16	249	3.091892	3.754286	5.105263	249	-2.02	-10.16	-17.36	-22.38
500	363.16	250	3.105405	3.768571	5.119883	250	-2.05	-10.17	-17.38	-22.38
502	363.16	251	3.091892	3.782857	5.134503	251	-2.02	-10.15	-17.34	-22.37
504	363.16	252	3.091892	3.768571	5.163743	252	-2.01	-10.14	-17.35	-22.35
506	363.16	253	3.078378	3.825714	5.163743	253	-2.02	-10.14	-17.35	-22.35
508	363.15	254	3.091892	3.797143	5.134503	254	-2.04	-10.14	-17.35	-22.35
510	363.16	255	3.105405	3.811429	5.134503	255	-2.01	-10.12	-17.33	-22.33
512	363.16	256	3.145946	3.768571	5.163743	256	-2.01	-10.12	-17.34	-22.32
514	363.16	257	3.091892	3.768571	5.207602	257	-2.02	-10.12	-17.35	-22.32
516	363.16	258	3.132432	3.797143	5.207602	258	-2.03	-10.12	-17.35	-22.31
518	363.16	259	3.132432	3.854286	5.192982	259	-2.02	-10.12	-17.33	-22.31
520	363.16	260	3.145946	3.882857	5.222222	260	-2.01	-10.1	-17.32	-22.29
522	363.18	261	3.172973	3.911429	5.266082	261	-2.01	-10.09	-17.33	-22.28
524	363.16	262	3.172973	3.868571	5.309942	262	-2.04	-10.11	-17.33	-22.28

526	363.16	263	3.145946	3.84	5.280702	263	-2	-10.09	-17.32	-22.27
528	363.16	264	3.159459	3.797143	5.295322	264	-2.01	-10.08	-17.32	-22.26
530	363.16	265	3.2	3.854286	5.324561	265	-2.04	-10.1	-17.34	-22.26
532	363.16	266	3.2	3.811429	5.295322	266	-2.03	-10.09	-17.32	-22.26
534	363.16	267	3.186486	3.825714	5.324561	267	-2.01	-10.07	-17.31	-22.24
536	363.17	268	3.213514	3.854286	5.383041	268	-2.02	-10.08	-17.32	-22.24
538	363.16	269	3.227027	3.897143	5.383041	269	-2.04	-10.08	-17.34	-22.24
540	363.18	270	3.240541	3.954286	5.412281	270	-2.05	-10.09	-17.33	-22.24
542	363.16	271	3.213514	3.954286	5.397661	271	-2.01	-10.06	-17.3	-22.22
544	363.18	272	3.213514	3.911429	5.426901	272	-2.01	-10.05	-17.31	-22.21
546	363.16	273	3.254054	3.911429	5.368421	273	-2.02	-10.05	-17.31	-22.2
548	363.18	274	3.281081	3.954286	5.368421	274	-2.04	-10.06	-17.32	-22.2
550	363.16	275	3.281081	3.94	5.44152	275	-2.01	-10.04	-17.28	-22.19
552	363.17	276	3.267568	3.954286	5.45614	276	-2.01	-10.03	-17.3	-22.17
554	363.16	277	3.254054	3.94	5.412281	277	-2.01	-10.03	-17.31	-22.17
556	363.17	278	3.267568	3.968571	5.44152	278	-2.03	-10.03	-17.31	-22.17
558	363.17	279	3.294595	3.954286	5.48538	279	-2.03	-10.04	-17.29	-22.17
560	363.18	280	3.308108	3.968571	5.47076	280	-2	-10.01	-17.28	-22.15
562	363.16	281	3.294595	4.011429	5.44152	281	-2.01	-10.01	-17.3	-22.14
564	363.18	282	3.335135	3.982857	5.426901	282	-2.03	-10.02	-17.31	-22.15
566	363.16	283	3.281081	3.982857	5.48538	283	-2.01	-10.01	-17.27	-22.14
568	363.18	284	3.335135	3.982857	5.48538	284	-2	-10	-17.28	-22.12
570	363.17	285	3.321622	3.982857	5.51462	285	-2.02	-10	-17.3	-22.12
572	363.16	286	3.308108	3.954286	5.51462	286	-2.02	-10	-17.28	-22.12
574	363.16	287	3.348649	3.997143	5.51462	287	-2	-9.99	-17.28	-22.11
576	363.17	288	3.335135	3.968571	5.587719	288	-2.01	-9.99	-17.29	-22.1
578	363.16	289	3.321622	4.011429	5.55848	289	-2.04	-10	-17.29	-22.11
580	363.17	290	3.362162	4.068571	5.54386	290	-1.99	-9.97	-17.26	-22.09
582	363.17	291	3.335135	4.054286	5.52924	291	-2	-9.97	-17.28	-22.07
584	363.17	292	3.321622	4.025714	5.51462	292	-2.03	-9.98	-17.28	-22.08
586	363.18	293	3.335135	4.025714	5.55848	293	-2.01	-9.96	-17.26	-22.07
588	363.18	294	3.335135	4.011429	5.602339	294	-2	-9.96	-17.26	-22.06
590	363.17	295	3.362162	4.054286	5.587719	295	-2	-9.96	-17.26	-22.05
592	363.17	296	3.402703	4.082857	5.55848	296	-2.01	-9.95	-17.27	-22.05
594	363.17	297	3.42973	4.068571	5.55848	297	-2.03	-9.96	-17.27	-22.05
596	363.17	298	3.402703	4.097143	5.573099	298	-2.01	-9.95	-17.25	-22.04
598	363.17	299	3.416216	4.082857	5.602339	299	-2	-9.94	-17.25	-22.03
600	363.17	300	3.389189	4.054286	5.631579	300	-2	-9.93	-17.25	-22.02
602	363.16	301	3.348649	4.097143	5.646199	301	-2.01	-9.93	-17.26	-22.01
604	363.16	302	3.362162	4.111429	5.631579	302	-2.02	-9.94	-17.25	-22.02
606	363.16	303	3.375676	4.097143	5.631579	303	-1.99	-9.92	-17.24	-22.01
608	363.15	304	3.389189	4.125714	5.675439	304	-2	-9.92	-17.25	-22
610	362.95	305	3.389189	4.125714	5.660819	305	-2.01	-9.93	-17.26	-22
612	362.96	306	3.389189	4.111429	5.719298	306	-2.01	-9.92	-17.26	-22
614	362.96	307	3.42973	4.111429	5.660819	307	-2.03	-9.93	-17.26	-22

616	363.21	308	3.416216	4.097143	5.675439	308	-2	-9.91	-17.24	-21.99
618	363.27	309	3.456757	4.097143	5.660819	309	-2	-9.91	-17.25	-21.98
620	363.26	310	3.42973	4.097143	5.660819	310	-2.01	-9.91	-17.26	-21.97
622	363.26	311	3.443243	4.097143	5.616959	311	-2	-9.89	-17.23	-21.96
624	363.27	312	3.443243	4.097143	5.675439	312	-1.97	-9.88	-17.22	-21.95
626	363.27	313	3.443243	4.125714	5.690058	313	-1.97	-9.87	-17.23	-21.93
628	363.17	314	3.456757	4.168571	5.690058	314	-2.01	-9.88	-17.23	-21.94
630	363.16	315	3.42973	4.168571	5.631579	315	-1.97	-9.87	-17.21	-21.93
632	363.16	316	3.443243	4.168571	5.675439	316	-1.98	-9.87	-17.23	-21.93
634	363.17	317	3.443243	4.182857	5.733918	317	-2.02	-9.89	-17.25	-21.93
636	363.16	318	3.47027	4.168571	5.733918	318	-1.99	-9.87	-17.21	-21.92
638	363.16	319	3.483784	4.154286	5.704678	319	-1.98	-9.86	-17.22	-21.91
640	363.16	320	3.47027	4.125714	5.719298	320	-1.99	-9.87	-17.23	-21.91
642	363.18	321	3.443243	4.154286	5.719298	321	-2	-9.86	-17.23	-21.9
644	363.16	322	3.456757	4.225714	5.733918	322	-1.99	-9.86	-17.21	-21.9
646	363.16	323	3.47027	4.211429	5.719298	323	-1.97	-9.85	-17.21	-21.89
648	363.16	324	3.497297	4.197143	5.704678	324	-1.97	-9.84	-17.21	-21.88
650	363.16	325	3.456757	4.182857	5.733918	325	-2	-9.84	-17.22	-21.88
652	363.16	326	3.47027	4.211429	5.763158	326	-1.98	-9.84	-17.2	-21.88
654	363.16	327	3.456757	4.182857	5.777778	327	-1.97	-9.83	-17.2	-21.87
656	363.17	328	3.483784	4.197143	5.733918	328	-1.97	-9.83	-17.2	-21.86
658	363.16	329	3.483784	4.168571	5.777778	329	-1.98	-9.83	-17.22	-21.86
660	363.17	330	3.483784	4.182857	5.777778	330	-2	-9.83	-17.2	-21.86
662	363.17	331	3.47027	4.211429	5.777778	331	-1.97	-9.82	-17.2	-21.85
664	363.17	332	3.497297	4.168571	5.763158	332	-1.98	-9.83	-17.22	-21.85
666	363.18	333	3.524324	4.154286	5.777778	333	-2.01	-9.83	-17.22	-21.85
668	363.17	334	3.510811	4.154286	5.807018	334	-1.97	-9.81	-17.19	-21.84
670	363.18	335	3.443243	4.197143	5.792398	335	-1.98	-9.82	-17.21	-21.84
672	363.13	336	3.47027	4.268571	5.821637	336	-1.98	-9.81	-17.21	-21.83
674	363.16	337	3.537838	4.211429	5.792398	337	-2	-9.82	-17.21	-21.83
676	363.17	338	3.497297	4.211429	5.807018	338	-1.99	-9.82	-17.19	-21.83
678	363.17	339	3.497297	4.225714	5.807018	339	-1.98	-9.81	-17.2	-21.83
680	363.18	340	3.497297	4.24	5.792398	340	-1.98	-9.8	-17.2	-21.81
682	363.17	341	3.483784	4.268571	5.763158	341	-1.98	-9.8	-17.2	-21.81
684	363.17	342	3.483784	4.225714	5.763158	342	-2.01	-9.82	-17.22	-21.82
686	363.17	343	3.524324	4.211429	5.792398	343	-2.01	-9.81	-17.21	-21.82
688	363.17	344	3.537838	4.211429	5.821637	344	-1.98	-9.8	-17.19	-21.8
690	363.17	345	3.510811	4.24	5.865497	345	-1.97	-9.79	-17.2	-21.79
692	363.18	346	3.497297	4.225714	5.894737	346	-1.99	-9.79	-17.21	-21.79
694	363.17	347	3.510811	4.24	5.880117	347	-1.99	-9.79	-17.19	-21.79
696	363.18	348	3.524324	4.24	5.836257	348	-1.97	-9.78	-17.19	-21.78
698	363.17	349	3.564865	4.225714	5.850877	349	-1.98	-9.78	-17.21	-21.78
700	363.18	350	3.578378	4.211429	5.953216	350	-2.02	-9.8	-17.21	-21.78
702	363.17	351	3.551351	4.211429	5.865497	351	-1.98	-9.78	-17.19	-21.77
704	363.18	352	3.524324	4.24	5.850877	352	-1.98	-9.77	-17.2	-21.76

706	363.17	353	3.537838	4.225714	5.880117	353	-1.99	-9.77	-17.2	-21.75
708	363.18	354	3.524324	4.225714	5.865497	354	-1.99	-9.77	-17.17	-21.75
710	363.17	355	3.524324	4.254286	5.865497	355	-1.97	-9.76	-17.18	-21.75
712	363.17	356	3.537838	4.268571	5.894737	356	-1.98	-9.76	-17.19	-21.74
714	363.17	357	3.497297	4.225714	5.938596	357	-1.99	-9.76	-17.2	-21.74
716	363.17	358	3.564865	4.268571	5.923977	358	-2.02	-9.78	-17.2	-21.76
718	363.18	359	3.578378	4.225714	5.909357	359	-1.98	-9.76	-17.18	-21.74
720	363.18	360	3.564865	4.24	5.880117	360	-1.98	-9.75	-17.19	-21.74
722	363.17	361	3.551351	4.282857	5.938596	361	-1.98	-9.75	-17.19	-21.73
724	363.17	362	3.564865	4.282857	5.909357	362	-1.99	-9.76	-17.2	-21.73
726	363.17	363	3.524324	4.282857	5.909357	363	-2.01	-9.76	-17.2	-21.74
728	363.17	364	3.537838	4.24	5.938596	364	-1.98	-9.75	-17.18	-21.73
730	363.18	365	3.564865	4.225714	5.967836	365	-1.98	-9.74	-17.19	-21.72
732	363.17	366	3.537838	4.268571	5.997076	366	-1.99	-9.75	-17.2	-21.71
734	363.18	367	3.551351	4.282857	5.982456	367	-1.99	-9.74	-17.18	-21.72
736	363.18	368	3.564865	4.268571	6.026316	368	-1.97	-9.73	-17.17	-21.7
738	363.17	369	3.591892	4.282857	6.026316	369	-1.98	-9.74	-17.19	-21.7
740	363.18	370	3.591892	4.268571	5.953216	370	-2	-9.74	-17.19	-21.7
742	363.18	371	3.605405	4.254286	5.967836	371	-1.98	-9.73	-17.18	-21.7
744	363.18	372	3.564865	4.268571	6.026316	372	-1.97	-9.72	-17.17	-21.69
746	363.17	373	3.591892	4.24	5.997076	373	-1.97	-9.72	-17.17	-21.68
748	363.17	374	3.591892	4.254286	5.982456	374	-1.97	-9.72	-17.18	-21.68
750	363.17	375	3.618919	4.24	5.938596	375	-1.99	-9.72	-17.18	-21.67
752	363.18	376	3.618919	4.24	5.982456	376	-1.97	-9.71	-17.15	-21.67
754	363.18	377	3.591892	4.254286	5.997076	377	-1.96	-9.7	-17.17	-21.66
756	363.17	378	3.618919	4.268571	5.997076	378	-1.97	-9.71	-17.18	-21.66
758	363.18	379	3.618919	4.24	5.967836	379	-2	-9.71	-17.17	-21.67
760	363.18	380	3.632432	4.24	5.938596	380	-1.96	-9.7	-17.16	-21.65
762	363.18	381	3.672973	4.282857	5.967836	381	-1.97	-9.7	-17.17	-21.66
764	363.18	382	3.645946	4.297143	6.040936	382	-1.99	-9.71	-17.18	-21.65
766	363.18	383	3.618919	4.311429	6.026316	383	-1.98	-9.7	-17.16	-21.66
768	363.18	384	3.605405	4.311429	5.997076	384	-1.97	-9.7	-17.17	-21.65
770	363.18	385	3.605405	4.325714	5.967836	385	-1.98	-9.7	-17.18	-21.65
772	363.18	386	3.578378	4.325714	5.953216	386	-2.01	-9.71	-17.18	-21.65
774	363.17	387	3.591892	4.311429	5.997076	387	-1.97	-9.7	-17.16	-21.65
776	363.18	388	3.591892	4.325714	6.040936	388	-1.97	-9.69	-17.17	-21.63
778	363.18	389	3.564865	4.368571	6.055556	389	-1.98	-9.69	-17.17	-21.63
780	363.18	390	3.578378	4.311429	6.084795	390	-1.98	-9.69	-17.17	-21.63
782	363.18	391	3.605405	4.325714	6.055556	391	-1.99	-9.69	-17.16	-21.63
784	363.18	392	3.578378	4.34	6.055556	392	-1.97	-9.68	-17.14	-21.62
786	363.18	393	3.605405	4.311429	6.040936	393	-1.96	-9.67	-17.14	-21.61
788	363.18	394	3.645946	4.325714	6.055556	394	-1.96	-9.67	-17.15	-21.61
790	363.18	395	3.632432	4.311429	6.070175	395	-1.97	-9.67	-17.16	-21.61
792	363.18	396	3.618919	4.311429	6.070175	396	-1.99	-9.68	-17.16	-21.62
794	363.18	397	3.632432	4.311429	6.070175	397	-1.95	-9.66	-17.14	-21.6

796	363.18	398	3.618919	4.34	6.026316	398	-1.96	-9.66	-17.15	-21.6
798	363.18	399	3.632432	4.311429	6.026316	399	-1.97	-9.67	-17.17	-21.61
800	363.18	400	3.632432	4.311429	6.099415	400	-1.99	-9.67	-17.16	-21.61
802	363.19	401	3.672973	4.368571	6.099415	401	-1.98	-9.67	-17.15	-21.61
804	363.18	402	3.672973	4.354286	6.099415	402	-1.97	-9.66	-17.15	-21.6
806	363.19	403	3.659459	4.354286	6.084795	403	-1.97	-9.66	-17.15	-21.6
808	363.18	404	3.632432	4.325714	6.055556	404	-1.97	-9.66	-17.15	-21.59
810	363.19	405	3.605405	4.34	6.040936	405	-1.98	-9.66	-17.16	-21.59
812	363.21	406	3.605405	4.311429	6.114035	406	-1.99	-9.67	-17.16	-21.59
814	363.18	407	3.672973	4.325714	6.143275	407	-1.96	-9.65	-17.14	-21.58
816	363.18	408	3.645946	4.325714	6.128655	408	-1.97	-9.65	-17.16	-21.58
818	363.18	409	3.672973	4.34	6.128655	409	-1.98	-9.66	-17.17	-21.58
820	363.18	410	3.645946	4.354286	6.099415	410	-2	-9.67	-17.17	-21.59
822	363.18	411	3.686486	4.382857	6.128655	411	-1.96	-9.65	-17.14	-21.58
824		412	3.686486	4.397143	6.128655	412	-1.96	-9.65	-17.16	-21.57
		413	3.659459	4.397143	6.128655	413	-1.98	-9.65	-17.16	-21.57
		414	3.672973	4.382857	6.114035	414	-1.98	-9.64	-17.14	-21.56
		415	3.672973	4.397143	6.128655	415	-1.96	-9.64	-17.14	-21.57
		416	3.659459	4.382857	6.128655	416	-1.97	-9.64	-17.16	-21.56
		417	3.659459	4.44	6.114035	417	-2	-9.66	-17.17	-21.57
		418	3.659459	4.397143	6.143275	418	-1.98	-9.65	-17.14	-21.57
		419	3.645946	4.411429	6.114035	419	-1.97	-9.64	-17.15	-21.56
		420	3.659459	4.411429	6.157895	420	-1.97	-9.64	-17.15	-21.55
		421	3.672973	4.382857	6.230994	421	-1.98	-9.63	-17.14	-21.54
		422	3.632432	4.382857	6.260234	422	-2	-9.65	-17.15	-21.55
		423	3.659459	4.411429	6.230994	423	-1.98	-9.64	-17.14	-21.56
		424	3.686486	4.34	6.157895	424	-1.97	-9.63	-17.14	-21.54
		425	3.686486	4.325714	6.172515	425	-1.97	-9.63	-17.15	-21.54
		426	3.672973	4.411429	6.172515	426	-2	-9.64	-17.16	-21.54
		427	3.672973	4.425714	6.172515	427	-1.97	-9.63	-17.13	-21.54
		428	3.686486	4.397143	6.157895	428	-1.96	-9.62	-17.14	-21.53
		429	3.686486	4.382857	6.128655	429	-1.97	-9.63	-17.15	-21.53
		430	3.7	4.425714	6.157895	430	-1.98	-9.63	-17.15	-21.53
		431	3.7	4.425714	6.128655	431	-1.98	-9.62	-17.13	-21.53
		432	3.659459	4.411429	6.172515	432	-1.96	-9.62	-17.13	-21.53
		433	3.686486	4.397143	6.172515	433	-1.97	-9.62	-17.15	-21.53
		434	3.686486	4.44	6.201754	434	-1.98	-9.62	-17.15	-21.53
		435	3.7	4.454286	6.216374	435	-1.98	-9.62	-17.14	-21.53
		436	3.686486	4.454286	6.172515	436	-1.98	-9.62	-17.14	-21.53
		437	3.7	4.468571	6.216374	437	-1.96	-9.61	-17.13	-21.53
		438	3.713514	4.468571	6.245614	438	-1.97	-9.62	-17.15	-21.53
		439	3.7	4.482857	6.187135	439	-1.98	-9.62	-17.15	-21.52
		440	3.686486	4.454286	6.187135	440	-1.98	-9.61	-17.13	-21.52
		441	3.672973	4.425714	6.216374	441	-1.96	-9.6	-17.13	-21.51
		442	3.686486	4.425714	6.201754	442	-1.97	-9.61	-17.13	-21.51

443	3.7	4.411429	6.260234	443	-1.98	-9.61	-17.15	-21.52
444	3.659459	4.425714	6.274854	444	-1.99	-9.62	-17.15	-21.52
445	3.672973	4.468571	6.260234	445	-1.99	-9.62	-17.15	-21.52
446	3.7	4.425714	6.230994	446	-1.98	-9.61	-17.14	-21.52
447	3.727027	4.411429	6.245614	447	-1.98	-9.62	-17.14	-21.52
448	3.713514	4.454286	6.187135	448	-1.98	-9.61	-17.14	-21.52
449	3.713514	4.468571	6.201754	449	-1.97	-9.6	-17.13	-21.5
450	3.7	4.411429	6.201754	450	-1.98	-9.61	-17.15	-21.5
451	3.672973	4.411429	6.274854	451	-2	-9.61	-17.15	-21.51
452	3.713514	4.44	6.289474	452	-1.98	-9.61	-17.13	-21.5
453	3.740541	4.44	6.245614	453	-1.97	-9.6	-17.13	-21.5
454	3.740541	4.411429	6.260234	454	-1.97	-9.6	-17.14	-21.5
455	3.727027	4.425714	6.274854	455	-1.98	-9.6	-17.14	-21.5
456	3.727027	4.397143	6.274854	456	-1.98	-9.6	-17.14	-21.49
457	3.713514	4.411429	6.289474	457	-1.99	-9.6	-17.13	-21.49
458	3.7	4.425714	6.245614	458	-1.96	-9.59	-17.12	-21.49
459	3.740541	4.425714	6.245614	459	-1.96	-9.59	-17.13	-21.48
460	3.740541	4.454286	6.274854	460	-1.97	-9.59	-17.14	-21.48
461	3.7	4.454286	6.260234	461	-1.98	-9.6	-17.14	-21.48
462	3.713514	4.468571	6.274854	462	-1.99	-9.59	-17.13	-21.48
463	3.7	4.454286	6.274854	463	-1.97	-9.59	-17.12	-21.48
464	3.7	4.468571	6.274854	464	-1.96	-9.58	-17.12	-21.46
465	3.7	4.482857	6.289474	465	-1.97	-9.58	-17.13	-21.46
466	3.7	4.425714	6.304094	466	-2	-9.59	-17.14	-21.47
467	3.713514	4.397143	6.362573	467	-1.98	-9.59	-17.12	-21.47
468	3.7	4.44	6.274854	468	-1.98	-9.59	-17.13	-21.47
469	3.727027	4.44	6.260234	469	-1.99	-9.59	-17.15	-21.47
470	3.727027	4.468571	6.289474	470	-2.01	-9.6	-17.14	-21.47
471	3.713514	4.454286	6.304094	471	-1.98	-9.59	-17.12	-21.47
472	3.713514	4.454286	6.289474	472	-1.98	-9.59	-17.14	-21.47
473	3.740541	4.482857	6.304094	473	-1.99	-9.6	-17.15	-21.47
474	3.767568	4.468571	6.318713	474	-2.01	-9.6	-17.14	-21.47
475	3.754054	4.482857	6.318713	475	-1.98	-9.59	-17.12	-21.47
476	3.740541	4.468571	6.318713	476	-1.98	-9.58	-17.13	-21.46
477	3.740541	4.454286	6.318713	477	-1.99	-9.59	-17.14	-21.47
478	3.740541	4.44	6.333333	478	-2	-9.6	-17.14	-21.47
479	3.754054	4.497143	6.260234	479	-2	-9.59	-17.13	-21.47
480	3.740541	4.454286	6.304094	480	-1.98	-9.58	-17.12	-21.46
481	3.767568	4.411429	6.318713	481	-1.98	-9.58	-17.13	-21.46
482	3.767568	4.44	6.274854	482	-1.99	-9.59	-17.14	-21.47
483	3.808108	4.468571	6.333333	483	-1.99	-9.59	-17.14	-21.46
484	3.781081	4.482857	6.347953	484	-2.01	-9.59	-17.14	-21.47
485	3.767568	4.468571	6.318713	485	-1.98	-9.58	-17.12	-21.46
486	3.794595	4.482857	6.318713	486	-1.98	-9.58	-17.13	-21.46
487	3.794595	4.468571	6.333333	487	-1.98	-9.58	-17.14	-21.46

488	3.781081	4.468571	6.362573	488	-2	-9.59	-17.15	-21.46
489	3.767568	4.454286	6.318713	489	-2.01	-9.59	-17.14	-21.47
490	3.767568	4.482857	6.318713	490	-1.99	-9.58	-17.13	-21.46
491	3.767568	4.511429	6.333333	491	-2	-9.59	-17.14	-21.46
492	3.781081	4.497143	6.377193	492	-1.99	-9.58	-17.14	-21.46
493	3.781081	4.454286	6.391813	493	-2.01	-9.59	-17.15	-21.46
494	3.754054	4.482857	6.391813	494	-2.02	-9.59	-17.15	-21.46
495	3.754054	4.497143	6.391813	495	-2	-9.58	-17.13	-21.46
496	3.767568	4.482857	6.406433	496	-1.99	-9.58	-17.13	-21.46
497	3.767568	4.497143	6.362573	497	-1.99	-9.58	-17.14	-21.46
498	3.740541	4.482857	6.347953	498	-1.99	-9.58	-17.15	-21.46
499	3.740541	4.497143	6.362573	499	-1.99	-9.57	-17.14	-21.45
500	3.794595	4.482857	6.347953	500	-2.01	-9.58	-17.14	-21.45
501	3.767568	4.468571	6.347953	501	-2	-9.59	-17.14	-21.46
502	3.754054	4.497143	6.362573	502	-1.99	-9.57	-17.13	-21.45
503	3.767568	4.54	6.406433	503	-1.99	-9.57	-17.13	-21.44
504	3.794595	4.525714	6.406433	504	-1.99	-9.57	-17.13	-21.44
505	3.794595	4.511429	6.421053	505	-1.99	-9.57	-17.14	-21.44
506	3.794595	4.525714	6.377193	506	-2	-9.57	-17.13	-21.44
507	3.767568	4.497143	6.347953	507	-1.99	-9.56	-17.11	-21.43
508	3.767568	4.468571	6.333333	508	-1.97	-9.56	-17.11	-21.42
509	3.781081	4.525714	6.362573	509	-1.98	-9.56	-17.12	-21.43
510	3.781081	4.554286	6.391813	510	-1.98	-9.56	-17.13	-21.43
511	3.781081	4.525714	6.406433	511	-1.99	-9.56	-17.13	-21.43
512	3.794595	4.497143	6.406433	512	-2	-9.57	-17.14	-21.44
513	3.754054	4.525714	6.391813	513	-2.01	-9.58	-17.13	-21.45
514	3.740541	4.497143	6.362573	514	-1.98	-9.56	-17.13	-21.44
515	3.740541	4.525714	6.391813	515	-2	-9.57	-17.15	-21.44
516	3.781081	4.525714	6.435673	516	-2.01	-9.57	-17.15	-21.44
517	3.794595	4.497143	6.435673	517	-2.01	-9.57	-17.13	-21.44
518	3.767568	4.482857	6.362573	518	-1.98	-9.56	-17.13	-21.43
519	3.808108	4.511429	6.377193	519	-2	-9.57	-17.15	-21.44
520	3.781081	4.511429	6.391813	520	-2	-9.57	-17.15	-21.44
521	3.781081	4.54	6.362573	521	-2.01	-9.57	-17.14	-21.44
522	3.781081	4.54	6.435673	522	-1.99	-9.56	-17.12	-21.43
523	3.767568	4.525714	6.435673	523	-1.98	-9.56	-17.12	-21.43
524	3.767568	4.54	6.377193	524	-1.99	-9.57	-17.14	-21.43
525	3.767568	4.511429	6.391813	525	-2	-9.57	-17.15	-21.44
526	3.794595	4.554286	6.362573	526	-2.02	-9.58	-17.16	-21.44
527	3.781081	4.525714	6.377193	527	-2.01	-9.57	-17.13	-21.44
528	3.794595	4.511429	6.450292	528	-1.99	-9.57	-17.14	-21.44
529	3.821622	4.54	6.406433	529	-2	-9.57	-17.15	-21.44
530	3.821622	4.54	6.377193	530	-2.02	-9.58	-17.16	-21.44
531	3.808108	4.568571	6.406433	531	-2.01	-9.57	-17.13	-21.44
532	3.848649	4.54	6.377193	532	-2	-9.57	-17.14	-21.44

533	3.835135	4.525714	6.406433	533	-2	-9.57	-17.15	-21.44
534	3.821622	4.497143	6.435673	534	-2.02	-9.58	-17.16	-21.45
535	3.821622	4.525714	6.406433	535	-2.03	-9.58	-17.15	-21.45
536	3.821622	4.54	6.391813	536	-2.01	-9.57	-17.14	-21.44
537	3.821622	4.54	6.450292	537	-2	-9.57	-17.13	-21.44
538	3.821622	4.525714	6.421053	538	-2	-9.56	-17.14	-21.42
539	3.794595	4.54	6.406433	539	-2.02	-9.57	-17.15	-21.43
540	3.808108	4.511429	6.391813	540	-2.02	-9.58	-17.14	-21.44
541	3.821622	4.511429	6.421053	541	-2	-9.57	-17.13	-21.42
542	3.848649	4.568571	6.391813	542	-2.01	-9.58	-17.15	-21.43
543	3.835135	4.525714	6.406433	543	-2.02	-9.58	-17.16	-21.43
544	3.794595	4.497143	6.450292	544	-2.03	-9.58	-17.14	-21.44
545	3.808108	4.554286	6.450292	545	-1.99	-9.56	-17.12	-21.42
546	3.808108	4.497143	6.450292	546	-2	-9.56	-17.13	-21.42
547	3.808108	4.525714	6.421053	547	-2.02	-9.57	-17.15	-21.42
548	3.808108	4.582857	6.421053	548	-2.02	-9.57	-17.13	-21.42
549	3.821622	4.582857	6.464912	549	-2	-9.56	-17.13	-21.42
550	3.835135	4.582857	6.464912	550	-2.01	-9.57	-17.14	-21.42
551	3.848649	4.54	6.406433	551	-2.02	-9.57	-17.15	-21.42
552	3.848649	4.54	6.435673	552	-2.03	-9.58	-17.14	-21.43
553	3.835135	4.54	6.450292	553	-2	-9.56	-17.13	-21.42
554	3.821622	4.554286	6.479532	554	-2.01	-9.56	-17.14	-21.42
555	3.794595	4.525714	6.464912	555	-2.03	-9.57	-17.15	-21.42
556	3.767568	4.554286	6.479532	556	-2.02	-9.57	-17.13	-21.43
557	3.767568	4.568571	6.494152	557	-2	-9.56	-17.13	-21.42
558	3.808108	4.582857	6.435673	558	-2	-9.56	-17.14	-21.42
559	3.808108	4.54	6.435673	559	-2.02	-9.57	-17.14	-21.42
560	3.848649	4.568571	6.435673	560	-2.02	-9.57	-17.13	-21.42
561	3.821622	4.568571	6.435673	561	-2	-9.56	-17.12	-21.42
562	3.808108	4.511429	6.421053	562	-2	-9.56	-17.13	-21.41
563	3.808108	4.497143	6.406433	563	-2.01	-9.57	-17.14	-21.42
564	3.835135	4.54	6.435673	564	-2.04	-9.57	-17.14	-21.42
565	3.848649	4.597143	6.450292	565	-2	-9.56	-17.12	-21.42
566	3.875676	4.611429	6.464912	566	-2.01	-9.56	-17.14	-21.42
567	3.862162	4.568571	6.464912	567	-2.02	-9.57	-17.15	-21.42
568	3.835135	4.611429	6.508772	568	-2.05	-9.58	-17.15	-21.43
569	3.848649	4.597143	6.523392	569	-2.01	-9.57	-17.13	-21.42
570	3.862162	4.568571	6.479532	570	-2	-9.56	-17.13	-21.41
571	3.862162	4.511429	6.523392	571	-2	-9.55	-17.13	-21.41
572	3.875676	4.525714	6.479532	572	-2.03	-9.57	-17.15	-21.42
573	3.889189	4.568571	6.435673	573	-2.01	-9.56	-17.12	-21.41
574	3.862162	4.554286	6.450292	574	-2	-9.56	-17.12	-21.41
575	3.821622	4.554286	6.421053	575	-2	-9.56	-17.13	-21.41
576	3.862162	4.568571	6.464912	576	-2.01	-9.56	-17.14	-21.41
577	3.875676	4.582857	6.494152	577	-2.03	-9.56	-17.13	-21.41

578	3.848649	4.568571	6.508772	578	-2	-9.55	-17.12	-21.41
579	3.848649	4.54	6.538012	579	-2	-9.55	-17.13	-21.41
580	3.848649	4.525714	6.494152	580	-2.01	-9.56	-17.13	-21.41
581	3.862162	4.554286	6.479532	581	-2.01	-9.56	-17.14	-21.41
582	3.862162	4.568571	6.523392	582	-2.04	-9.57	-17.15	-21.42
583	3.875676	4.54	6.494152	583	-2.01	-9.56	-17.12	-21.41
584	3.902703	4.597143	6.464912	584	-2	-9.56	-17.12	-21.41
585	3.848649	4.597143	6.479532	585	-2.01	-9.56	-17.14	-21.41
586	3.821622	4.611429	6.464912	586	-2.03	-9.57	-17.14	-21.42
587	3.835135	4.568571	6.435673	587	-2	-9.56	-17.12	-21.41
588	3.835135	4.525714	6.464912	588	-2	-9.56	-17.13	-21.41
589	3.835135	4.568571	6.479532	589	-2.01	-9.56	-17.14	-21.41
590	3.848649	4.611429	6.464912	590	-2.03	-9.56	-17.14	-21.41
591	3.862162	4.611429	6.479532	591	-1.99	-9.55	-17.11	-21.4
592	3.862162	4.582857	6.464912	592	-1.99	-9.54	-17.12	-21.4
593	3.889189	4.568571	6.479532	593	-2	-9.55	-17.14	-21.4
594	3.916216	4.54	6.523392	594	-2.02	-9.56	-17.13	-21.41
595	3.902703	4.554286	6.552632	595	-2	-9.56	-17.12	-21.41
596	3.902703	4.54	6.523392	596	-2	-9.55	-17.13	-21.41
597	3.902703	4.568571	6.523392	597	-2	-9.56	-17.14	-21.41
598	3.92973	4.582857	6.581871	598	-2.02	-9.57	-17.15	-21.42
599	3.916216	4.582857	6.538012	599	-2.02	-9.57	-17.13	-21.42
600	3.889189	4.582857	6.552632	600	-2	-9.56	-17.13	-21.42
601	3.875676	4.582857	6.552632	601	-2.01	-9.56	-17.14	-21.42
602	3.902703	4.582857	6.479532	602	-2.02	-9.57	-17.15	-21.42
603	3.862162	4.582857	6.464912	603	-2.04	-9.57	-17.14	-21.42
604	3.875676	4.582857	6.494152	604	-2.01	-9.57	-17.14	-21.42
605	3.902703	4.554286	6.523392	605	-2.02	-9.57	-17.15	-21.42
606	3.848649	4.554286	6.508772	606	-2.02	-9.57	-17.15	-21.42
607	3.862162	4.568571	6.538012	607	-2.03	-9.58	-17.15	-21.42
608	3.902703	4.568571	6.523392	608	-2.05	-9.58	-17.15	-21.43
609	3.875676	4.568571	6.538012	609	-2.02	-9.57	-17.13	-21.42
610	3.862162	4.568571	6.581871	610	-2.02	-9.57	-17.14	-21.42
611	3.889189	4.554286	6.596491	611	-2.02	-9.58	-17.14	-21.42
612	3.916216	4.582857	6.538012	612	-2.02	-9.57	-17.14	-21.41
613	3.875676	4.582857	6.523392	613	-2.04	-9.58	-17.15	-21.42
614	3.902703	4.568571	6.494152	614	-2.04	-9.58	-17.15	-21.43
615	3.889189	4.568571	6.523392	615	-2.03	-9.58	-17.14	-21.43
616	3.902703	4.582857	6.508772	616	-2.02	-9.57	-17.14	-21.42
617	3.902703	4.568571	6.508772	617	-2.02	-9.57	-17.15	-21.42
618	3.902703	4.568571	6.538012	618	-2.03	-9.58	-17.15	-21.42
619	3.875676	4.597143	6.538012	619	-2.03	-9.57	-17.14	-21.42
620	3.862162	4.597143	6.552632	620	-2.04	-9.58	-17.14	-21.42
621	3.862162	4.582857	6.523392	621	-2.03	-9.58	-17.14	-21.42
622	3.902703	4.568571	6.567251	622	-2.02	-9.57	-17.13	-21.42

623	3.916216	4.568571	6.596491	623	-2.03	-9.58	-17.14	-21.42
624	3.916216	4.611429	6.611111	624	-2.02	-9.57	-17.13	-21.41
625	3.902703	4.568571	6.581871	625	-2.02	-9.57	-17.14	-21.41
626	3.875676	4.568571	6.581871	626	-2.04	-9.58	-17.15	-21.42
627	3.889189	4.611429	6.552632	627	-2.04	-9.58	-17.14	-21.42
628	3.902703	4.582857	6.552632	628	-2.02	-9.57	-17.13	-21.42
629	3.875676	4.597143	6.596491	629	-2.02	-9.57	-17.13	-21.42
630	3.889189	4.582857	6.567251	630	-2.02	-9.57	-17.13	-21.4
631	3.875676	4.582857	6.567251	631	-2.01	-9.56	-17.13	-21.4
632	3.848649	4.554286	6.538012	632	-2.03	-9.57	-17.14	-21.4
633	3.875676	4.597143	6.581871	633	-2.03	-9.57	-17.13	-21.4
634	3.889189	4.611429	6.611111	634	-2.02	-9.57	-17.13	-21.41
635	3.902703	4.568571	6.552632	635	-2.02	-9.58	-17.14	-21.42
636	3.943243	4.611429	6.523392	636	-2.03	-9.58	-17.16	-21.42
637	3.92973	4.568571	6.523392	637	-2.05	-9.59	-17.16	-21.42
638	3.889189	4.54	6.552632	638	-2.02	-9.57	-17.13	-21.42
639	3.916216	4.582857	6.581871	639	-2.01	-9.56	-17.13	-21.4
640	3.875676	4.597143	6.567251	640	-2.01	-9.56	-17.13	-21.4
641	3.92973	4.625714	6.552632	641	-2.04	-9.58	-17.15	-21.41
642	3.902703	4.597143	6.567251	642	-2.03	-9.58	-17.13	-21.41
643	3.862162	4.554286	6.596491	643	-2.01	-9.57	-17.13	-21.41
644	3.889189	4.582857	6.625731	644	-2.02	-9.57	-17.14	-21.41
645	3.902703	4.597143	6.625731	645	-2.03	-9.58	-17.15	-21.41
646	3.902703	4.611429	6.611111	646	-2.05	-9.59	-17.16	-21.42
647	3.875676	4.611429	6.552632	647	-2.03	-9.58	-17.14	-21.42
648	3.875676	4.597143	6.581871	648	-2.01	-9.56	-17.13	-21.41
649	3.889189	4.568571	6.669591	649	-2.01	-9.56	-17.13	-21.4
650	3.943243	4.582857	6.611111	650	-2.03	-9.57	-17.14	-21.41
651	3.943243	4.597143	6.567251	651	-2.04	-9.58	-17.13	-21.42
652	3.889189	4.611429	6.581871	652	-2.01	-9.57	-17.13	-21.41
653	3.889189	4.611429	6.596491	653	-2.02	-9.58	-17.15	-21.41
654	3.902703	4.611429	6.523392	654	-2.03	-9.58	-17.15	-21.41
655	3.889189	4.625714	6.523392	655	-2.05	-9.59	-17.14	-21.42
656	3.889189	4.582857	6.567251	656	-2.01	-9.57	-17.13	-21.41
657	3.92973	4.568571	6.611111	657	-2.02	-9.57	-17.14	-21.41
658	3.956757	4.582857	6.625731	658	-2.02	-9.57	-17.14	-21.41
659	3.943243	4.582857	6.581871	659	-2.03	-9.58	-17.15	-21.41
660	3.916216	4.554286	6.523392	660	-2.05	-9.59	-17.15	-21.42
661	3.902703	4.554286	6.596491	661	-2.04	-9.58	-17.14	-21.42
662	3.889189	4.582857	6.640351	662	-2.03	-9.57	-17.13	-21.41
663	3.92973	4.582857	6.611111	663	-2.03	-9.58	-17.15	-21.42
664	3.92973	4.611429	6.581871	664	-2.03	-9.58	-17.15	-21.42
665	3.916216	4.611429	6.596491	665	-2.05	-9.59	-17.16	-21.42
666	3.943243	4.654286	6.611111	666	-2.05	-9.59	-17.15	-21.43
667	3.943243	4.64	6.640351	667	-2.03	-9.59	-17.15	-21.43

668	3.943243	4.64	6.596491	668	-2.04	-9.59	-17.16	-21.42
669	3.92973	4.654286	6.640351	669	-2.06	-9.6	-17.17	-21.43
670	3.943243	4.625714	6.625731	670	-2.06	-9.6	-17.16	-21.44
671	3.956757	4.611429	6.611111	671	-2.04	-9.6	-17.16	-21.43
672	3.943243	4.625714	6.581871	672	-2.05	-9.6	-17.17	-21.43
673	3.943243	4.625714	6.654971	673	-2.06	-9.6	-17.17	-21.43
674	3.943243	4.597143	6.640351	674	-2.06	-9.6	-17.16	-21.43
675	3.92973	4.582857	6.611111	675	-2.04	-9.59	-17.15	-21.43
676	3.916216	4.597143	6.552632	676	-2.04	-9.59	-17.15	-21.43
677	3.902703	4.64	6.596491	677	-2.04	-9.59	-17.16	-21.43
678	3.916216	4.654286	6.654971	678	-2.04	-9.6	-17.16	-21.43
679	3.943243	4.625714	6.684211	679	-2.05	-9.6	-17.17	-21.44
680	3.92973	4.625714	6.669591	680	-2.07	-9.61	-17.16	-21.44
681	3.956757	4.625714	6.625731	681	-2.04	-9.6	-17.15	-21.44
682	3.92973	4.611429	6.611111	682	-2.04	-9.6	-17.16	-21.44
683	3.943243	4.597143	6.625731	683	-2.05	-9.6	-17.16	-21.44
684	3.92973	4.64	6.69883	684	-2.05	-9.6	-17.17	-21.44
685	3.916216	4.654286	6.669591	685	-2.06	-9.6	-17.17	-21.44
686	3.943243	4.611429	6.654971	686	-2.07	-9.61	-17.17	-21.44
687	3.956757	4.611429	6.625731	687	-2.06	-9.6	-17.16	-21.44
688	3.956757	4.611429	6.625731	688	-2.04	-9.6	-17.15	-21.44
689	3.916216	4.597143	6.625731	689	-2.06	-9.61	-17.17	-21.45
690	3.916216	4.582857	6.654971	690	-2.05	-9.6	-17.17	-21.44
691	3.943243	4.582857	6.684211	691	-2.08	-9.62	-17.18	-21.45
692	3.943243	4.611429	6.69883	692	-2.06	-9.61	-17.16	-21.45
693	3.92973	4.611429	6.640351	693	-2.04	-9.6	-17.16	-21.44
694	3.92973	4.597143	6.625731	694	-2.05	-9.6	-17.17	-21.44
695	3.92973	4.611429	6.684211	695	-2.08	-9.62	-17.19	-21.46
696	3.92973	4.654286	6.684211	696	-2.08	-9.62	-17.18	-21.46
697	3.943243	4.625714	6.669591	697	-2.04	-9.6	-17.16	-21.45
698	3.956757	4.64	6.669591	698	-2.05	-9.61	-17.18	-21.45
699	3.97027	4.611429	6.669591	699	-2.07	-9.62	-17.19	-21.46
700	3.956757	4.582857	6.596491	700	-2.08	-9.62	-17.17	-21.46
701	3.902703	4.625714	6.625731	701	-2.05	-9.61	-17.16	-21.45
702	3.92973	4.64	6.640351	702	-2.06	-9.61	-17.18	-21.45
703	3.983784	4.64	6.654971	703	-2.07	-9.62	-17.18	-21.45
704	3.983784	4.654286	6.625731	704	-2.08	-9.62	-17.17	-21.45
705	3.956757	4.654286	6.654971	705	-2.05	-9.61	-17.16	-21.45
706	3.943243	4.597143	6.611111	706	-2.05	-9.61	-17.17	-21.44
707	3.916216	4.611429	6.567251	707	-2.06	-9.61	-17.17	-21.44
708	3.956757	4.654286	6.625731	708	-2.08	-9.61	-17.16	-21.45
709	3.956757	4.64	6.654971	709	-2.05	-9.61	-17.16	-21.44
710	3.956757	4.654286	6.669591	710	-2.05	-9.61	-17.16	-21.45
711	3.956757	4.625714	6.654971	711	-2.05	-9.61	-17.17	-21.45
712	3.916216	4.625714	6.625731	712	-2.06	-9.61	-17.17	-21.45

713	3.92973	4.64	6.625731	713	-2.07	-9.62	-17.17	-21.45
714	3.956757	4.654286	6.69883	714	-2.08	-9.62	-17.17	-21.46
715	3.956757	4.668571	6.669591	715	-2.06	-9.62	-17.16	-21.46
716	3.97027	4.668571	6.684211	716	-2.04	-9.61	-17.16	-21.45
717	3.943243	4.654286	6.669591	717	-2.06	-9.62	-17.18	-21.45
718	3.92973	4.64	6.684211	718	-2.07	-9.62	-17.19	-21.46
719	3.902703	4.625714	6.640351	719	-2.08	-9.63	-17.17	-21.46
720	3.916216	4.611429	6.567251	720	-2.06	-9.62	-17.17	-21.46
721	3.983784	4.682857	6.567251	721	-2.05	-9.61	-17.17	-21.45
722	3.997297	4.654286	6.596491	722	-2.06	-9.62	-17.17	-21.45
723	3.97027	4.668571	6.640351	723	-2.06	-9.62	-17.18	-21.45
724	3.943243	4.682857	6.69883	724	-2.07	-9.62	-17.18	-21.45
725	3.943243	4.668571	6.71345	725	-2.07	-9.62	-17.16	-21.45
726	3.916216	4.654286	6.684211	726	-2.05	-9.61	-17.16	-21.45
727	3.902703	4.654286	6.684211	727	-2.06	-9.61	-17.17	-21.45
728	3.916216	4.625714	6.669591	728	-2.07	-9.62	-17.18	-21.45
729	3.92973	4.625714	6.684211	729	-2.08	-9.62	-17.17	-21.46
730	3.943243	4.654286	6.72807	730	-2.06	-9.62	-17.16	-21.46
731	3.92973	4.611429	6.684211	731	-2.05	-9.62	-17.16	-21.45
732	3.92973	4.668571	6.69883	732	-2.06	-9.62	-17.17	-21.45
733	3.92973	4.682857	6.71345	733	-2.06	-9.62	-17.17	-21.46
734	3.943243	4.697143	6.684211	734	-2.07	-9.62	-17.18	-21.46
735	3.943243	4.625714	6.69883	735	-2.08	-9.63	-17.18	-21.47
736	3.956757	4.597143	6.640351	736	-2.07	-9.63	-17.17	-21.47
737	3.956757	4.668571	6.625731	737	-2.06	-9.63	-17.18	-21.47
738	3.97027	4.625714	6.640351	738	-2.06	-9.63	-17.18	-21.47
739	3.916216	4.582857	6.669591	739	-2.07	-9.63	-17.19	-21.47
740	3.916216	4.597143	6.684211	740	-2.08	-9.64	-17.19	-21.47
741	3.916216	4.64	6.669591	741	-2.1	-9.65	-17.2	-21.49
742	3.916216	4.625714	6.669591	742	-2.08	-9.64	-17.19	-21.48
743	3.916216	4.597143	6.71345	743	-2.07	-9.64	-17.19	-21.48
744	3.956757	4.625714	6.72807	744	-2.07	-9.64	-17.2	-21.49
745	3.983784	4.64	6.69883	745	-2.07	-9.63	-17.19	-21.48
746	4.010811	4.668571	6.684211	746	-2.07	-9.63	-17.2	-21.48
747	3.997297	4.668571	6.71345	747	-2.08	-9.64	-17.2	-21.49
748	3.97027	4.668571	6.72807	748	-2.09	-9.65	-17.21	-21.49
749	3.983784	4.64	6.72807	749	-2.07	-9.64	-17.2	-21.49
750	3.943243	4.668571	6.74269	750	-2.06	-9.64	-17.2	-21.49
751	3.943243	4.625714	6.71345	751	-2.08	-9.65	-17.23	-21.5
752	3.92973	4.654286	6.69883	752	-2.1	-9.66	-17.24	-21.51
753	3.92973	4.64	6.69883	753	-2.1	-9.66	-17.23	-21.51
754	3.956757	4.64	6.684211	754	-2.08	-9.65	-17.22	-21.51
755	3.956757	4.654286	6.72807	755	-2.08	-9.65	-17.23	-21.52
756	3.983784	4.625714	6.75731	756	-2.08	-9.65	-17.23	-21.51
757	3.97027	4.64	6.77193	757	-2.09	-9.66	-17.24	-21.51

758	3.92973	4.668571	6.71345	758	-2.09	-9.66	-17.24	-21.51
759	3.97027	4.654286	6.69883	759	-2.11	-9.66	-17.23	-21.52
760	3.997297	4.64	6.69883	760	-2.08	-9.65	-17.23	-21.52
761	3.97027	4.682857	6.71345	761	-2.08	-9.65	-17.24	-21.52
762	3.997297	4.668571	6.684211	762	-2.09	-9.65	-17.24	-21.52
763	3.97027	4.64	6.69883	763	-2.09	-9.65	-17.24	-21.52
764	3.956757	4.64	6.72807	764	-2.11	-9.66	-17.24	-21.53
765	3.97027	4.654286	6.71345	765	-2.09	-9.66	-17.23	-21.53
766	3.983784	4.668571	6.75731	766	-2.09	-9.66	-17.24	-21.53
767	3.97027	4.668571	6.77193	767	-2.09	-9.66	-17.25	-21.53
768	3.97027	4.654286	6.74269	768	-2.11	-9.67	-17.26	-21.53
769	3.97027	4.654286	6.72807	769	-2.11	-9.67	-17.25	-21.54
770	3.97027	4.625714	6.77193	770	-2.09	-9.66	-17.24	-21.53
771	3.983784	4.64	6.80117	771	-2.09	-9.66	-17.24	-21.53
772	3.97027	4.668571	6.78655	772	-2.09	-9.66	-17.25	-21.54
773	3.956757	4.668571	6.75731	773	-2.1	-9.67	-17.25	-21.54
774	3.956757	4.682857	6.77193	774	-2.12	-9.68	-17.25	-21.55
775	3.983784	4.625714	6.80117	775	-2.1	-9.67	-17.25	-21.55
776	3.97027	4.625714	6.74269	776	-2.09	-9.67	-17.24	-21.54
777	3.97027	4.668571	6.72807	777	-2.1	-9.67	-17.26	-21.54
778	3.983784	4.668571	6.71345	778	-2.12	-9.69	-17.27	-21.55
779	3.97027	4.625714	6.72807	779	-2.12	-9.68	-17.25	-21.56
780	3.97027	4.668571	6.74269	780	-2.1	-9.68	-17.26	-21.55
781	3.997297	4.654286	6.77193	781	-2.1	-9.68	-17.26	-21.55
782	3.97027	4.64	6.75731	782	-2.11	-9.68	-17.27	-21.56
783	3.956757	4.611429	6.75731	783	-2.12	-9.68	-17.26	-21.55
784	3.983784	4.64	6.69883	784	-2.12	-9.68	-17.25	-21.55
785	3.97027	4.668571	6.74269	785	-2.11	-9.68	-17.25	-21.56
786	3.97027	4.625714	6.815789	786	-2.11	-9.68	-17.26	-21.56
787	3.956757	4.625714	6.75731	787	-2.12	-9.69	-17.28	-21.57
788	3.983784	4.597143	6.75731	788	-2.14	-9.7	-17.29	-21.57
789	4.010811	4.64	6.71345	789	-2.14	-9.7	-17.28	-21.59
790	3.983784	4.682857	6.72807	790	-2.12	-9.69	-17.27	-21.58
791	3.997297	4.682857	6.72807	791	-2.12	-9.69	-17.28	-21.57
792	3.97027	4.682857	6.75731	792	-2.13	-9.7	-17.29	-21.58
793	3.983784	4.654286	6.75731	793	-2.15	-9.71	-17.28	-21.59
794	3.983784	4.682857	6.77193	794	-2.11	-9.69	-17.27	-21.58
795	3.956757	4.654286	6.74269	795	-2.12	-9.7	-17.28	-21.58
796	3.943243	4.654286	6.72807	796	-2.12	-9.7	-17.28	-21.57
797	3.943243	4.64	6.74269	797	-2.13	-9.7	-17.28	-21.58
798	3.943243	4.654286	6.74269	798	-2.13	-9.7	-17.27	-21.59
799	3.97027	4.64	6.72807	799	-2.11	-9.7	-17.27	-21.59
800	3.983784	4.682857	6.72807	800	-2.11	-9.7	-17.28	-21.58
801	3.983784	4.654286	6.75731	801	-2.12	-9.7	-17.28	-21.58
802	3.97027	4.625714	6.75731	802	-2.14	-9.71	-17.28	-21.59

803	3.97027	4.668571	6.815789	803	-2.11	-9.69	-17.26	-21.58
804	3.97027	4.625714	6.845029	804	-2.12	-9.7	-17.28	-21.59
805	3.97027	4.625714	6.830409	805	-2.12	-9.7	-17.28	-21.59
806	3.943243	4.668571	6.80117	806	-2.12	-9.7	-17.28	-21.58
807	3.97027	4.668571	6.77193	807	-2.14	-9.71	-17.28	-21.59
808	3.997297	4.654286	6.74269	808	-2.11	-9.69	-17.26	-21.58
809	3.983784	4.654286	6.78655	809	-2.11	-9.7	-17.27	-21.59
810	3.956757	4.64	6.78655	810	-2.12	-9.7	-17.28	-21.59
811	3.97027	4.64	6.75731	811	-2.14	-9.71	-17.29	-21.59
812	3.983784	4.654286	6.78655	812	-2.12	-9.7	-17.27	-21.59
813	3.983784	4.625714	6.77193	813	-2.12	-9.71	-17.28	-21.59
814	3.943243	4.64	6.77193	814	-2.12	-9.7	-17.28	-21.59
815	3.943243	4.625714	6.78655	815	-2.12	-9.71	-17.28	-21.6
816	3.92973	4.625714	6.815789	816	-2.14	-9.72	-17.29	-21.6
817	3.983784	4.668571	6.75731	817	-2.14	-9.71	-17.28	-21.6
818	4.010811	4.668571	6.80117	818	-2.11	-9.71	-17.27	-21.6
819	3.983784	4.625714	6.78655	819	-2.12	-9.71	-17.28	-21.6
820	3.997297	4.654286	6.830409	820	-2.13	-9.72	-17.29	-21.61
821	3.983784	4.625714	6.75731	821	-2.16	-9.73	-17.3	-21.62
822	3.983784	4.64	6.80117	822	-2.12	-9.72	-17.28	-21.62
823	3.97027	4.654286	6.80117	823	-2.11	-9.71	-17.28	-21.61
824	3.97027	4.654286	6.830409	824	-2.11	-9.7	-17.29	-21.61

Control_exp_6

Experiment type: Control experiment. This experiment consisted of just an empty petridish.

There was not a humidity buffer inside the chamber. Chiller was set to - 38°C. Temperature around the sample was controlled by the chiller.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= humidity buffer 3= atmosphere 4= sample

Mass		RH				T				
Min.	Mass	Min.	Ch02	Ch03	Ch04	Min.	Ch01	Ch02	Ch03	Ch04
0	263.23	0	1.064865	0.731429	4.856725	0	13.55	-18.94	-18.85	-29.81
1	267.21	1	0.713514	1.088571	4.476608	1	11.55	-21	-19.63	-30.48
3	266.12	2	0.227027	1.631429	4.505848	2	8.99	-25.12	-23.64	-32.79
5	266.18	3	0.083784	2.317143	4.637427	3	7.05	-22.9	-24.16	-32.32
7	265.89	4	0.205405	3.102857	4.769006	4	5.84	-21.88	-23.34	-30.45

9	265.73	5	0.475676	4.06	4.856725	5	5	-21.88	-22.51	-29.74
11	265.68	6	0.881081	4.731429	4.915205	6	4.43	-20.93	-20.44	-29.32
13	265.78	7	1.354054	4.902857	4.871345	7	4.22	-19.78	-18.33	-28.31
15	265.85	8	1.745946	4.774286	4.637427	8	4.13	-19.18	-17.32	-27
17	265.85	9	1.935135	4.288571	4.28655	9	4.08	-18.86	-17.03	-25.99
19	265.85	10	2.002703	3.574286	3.979532	10	4.04	-18.64	-17.19	-25.46
21	265.81	11	1.854054	2.702857	3.701754	11	4.01	-18.46	-17.28	-25.15
23	265.82	12	1.597297	1.831429	3.511696	12	3.99	-18.32	-17.35	-24.79
25	265.79	13	1.272973	1.031429	3.380117	13	3.98	-18.18	-17.29	-24.62
27	265.75	14	0.948649	0.374286	3.248538	14	3.89	-18.22	-17.9	-25.61
29	265.76	15	0.624324	0.111429	3.146199	15	3.68	-18.22	-19.02	-26.82
31	265.72	16	0.327027	0.425714	3.05848	16	3.53	-18.04	-19.65	-27.17
33	265.74	17	0.124324	0.554286	3.04386	17	3.43	-17.96	-20.02	-27.34
35	265.71	18	0.010811	0.582857	3	18	3.34	-17.91	-20.25	-27.43
37	265.73	19	0.051351	0.525714	2.897661	19	3.27	-17.88	-20.4	-27.49
39	265.69	20	0.051351	0.468571	2.853801	20	3.23	-17.84	-20.5	-27.52
41	265.71	21	0.016216	0.368571	2.839181	21	3.18	-17.82	-20.58	-27.55
43	265.67	22	0.097297	0.282857	2.751462	22	3.15	-17.79	-20.62	-27.57
45	265.7	23	0.124324	0.282857	2.663743	23	3.12	-17.76	-20.65	-27.57
47	265.68	24	0.205405	0.225714	2.576023	24	3.1	-17.72	-20.67	-27.57
49	265.65	25	0.313514	0.211429	2.488304	25	3.08	-17.7	-20.68	-27.57
51	265.67	26	0.408108	0.14	2.415205	26	3.07	-17.68	-20.69	-27.57
53	265.63	27	0.516216	0.04	2.356725	27	3.06	-17.65	-20.7	-27.57
55	265.66	28	0.583784	0.097143	2.327485	28	3.05	-17.62	-20.71	-27.56
57	265.62	29	0.624324	0.017143	2.254386	29	3.04	-17.58	-20.69	-27.54
59	265.71	30	0.718919	0.074286	2.152047	30	3.04	-17.55	-20.69	-27.53
61	265.61	31	0.8	0.117143	2.064327	31	3.04	-17.53	-20.69	-27.52
63	265.63	32	0.867568	0.117143	2.005848	32	3.03	-17.5	-20.69	-27.5
65	265.59	33	0.908108	0.145714	1.888889	33	3.03	-17.46	-20.67	-27.49
67	265.7	34	0.962162	0.188571	1.78655	34	3.02	-17.44	-20.68	-27.48
69	265.61	35	1.043243	0.26	1.77193	35	3.02	-17.41	-20.67	-27.46
71	265.64	36	1.151351	0.302857	1.72807	36	3.02	-17.39	-20.67	-27.45
73	265.6	37	1.245946	0.388571	1.71345	37	3.02	-17.35	-20.66	-27.43
75	265.6	38	1.272973	0.388571	1.69883	38	3.02	-17.32	-20.64	-27.41
77	265.59	39	1.340541	0.402857	1.596491	39	3.03	-17.3	-20.64	-27.39
79	265.59	40	1.421622	0.502857	1.508772	40	3.02	-17.27	-20.64	-27.38
81	265.59	41	1.421622	0.56	1.421053	41	3.02	-17.24	-20.64	-27.36
83	265.59	42	1.448649	0.545714	1.406433	42	3.02	-17.21	-20.63	-27.35
85	265.61	43	1.52973	0.517143	1.333333	43	3.01	-17.19	-20.64	-27.34
87	265.58	44	1.597297	0.574286	1.230994	44	3.01	-17.17	-20.64	-27.32
89	265.61	45	1.637838	0.66	1.143275	45	3.01	-17.14	-20.63	-27.31
91	265.58	46	1.664865	0.802857	1.143275	46	3.02	-17.1	-20.61	-27.28
93	265.6	47	1.691892	0.774286	1.114035	47	3.03	-17.07	-20.6	-27.25
95	265.57	48	1.759459	0.788571	1.114035	48	3.02	-17.05	-20.59	-27.23
97	265.6	49	1.854054	0.917143	1.011696	49	3.03	-17.03	-20.59	-27.21

99	265.57	50	1.894595	0.931429	0.953216	50	3.03	-17	-20.58	-27.19
101	265.57	51	1.935135	0.945714	0.938596	51	3.04	-16.95	-20.55	-27.17
103	265.59	52	2.002703	0.988571	0.938596	52	3.04	-16.93	-20.54	-27.15
105	265.57	53	2.056757	1.06	0.894737	53	3.04	-16.91	-20.54	-27.13
107	265.59	54	2.056757	1.088571	0.777778	54	3.03	-16.89	-20.54	-27.12
109	265.56	55	2.110811	1.06	0.719298	55	3.05	-16.85	-20.53	-27.09
111	265.58	56	2.178378	1.145714	0.719298	56	3.05	-16.81	-20.51	-27.07
113	265.58	57	2.191892	1.202857	0.660819	57	3.05	-16.79	-20.5	-27.05
115	265.56	58	2.232432	1.231429	0.616959	58	3.05	-16.78	-20.5	-27.04
117	265.59	59	2.259459	1.26	0.55848	59	3.05	-16.75	-20.5	-27.02
119	265.56	60	2.313514	1.26	0.51462	60	3.05	-16.71	-20.48	-27
121	265.58	61	2.354054	1.26	0.51462	61	3.06	-16.69	-20.47	-26.98
123	265.56	62	2.367568	1.345714	0.397661	62	3.06	-16.67	-20.47	-26.97
125	265.55	63	2.421622	1.502857	0.397661	63	3.06	-16.64	-20.46	-26.94
127	265.58	64	2.448649	1.474286	0.339181	64	3.07	-16.61	-20.45	-26.92
129	265.55	65	2.502703	1.474286	0.251462	65	3.07	-16.58	-20.43	-26.9
131	265.57	66	2.556757	1.474286	0.222222	66	3.08	-16.56	-20.43	-26.88
133	265.55	67	2.57027	1.545714	0.222222	67	3.07	-16.54	-20.43	-26.87
135	265.58	68	2.610811	1.588571	0.280702	68	3.08	-16.5	-20.41	-26.84
137	265.55	69	2.624324	1.574286	0.236842	69	3.08	-16.48	-20.4	-26.82
139	265.57	70	2.664865	1.602857	0.163743	70	3.08	-16.46	-20.4	-26.8
141	265.57	71	2.664865	1.645714	0.105263	71	3.09	-16.44	-20.39	-26.79
143	265.55	72	2.691892	1.688571	0.090643	72	3.09	-16.4	-20.37	-26.77
145	265.58	73	2.772973	1.745714	0.061404	73	3.09	-16.39	-20.37	-26.75
147	265.55	74	2.8	1.774286	0.032164	74	3.09	-16.38	-20.37	-26.73
149	265.58	75	2.813514	1.788571	0.040936	75	3.09	-16.34	-20.36	-26.72
151	265.54	76	2.840541	1.802857	0.114035	76	3.1	-16.32	-20.34	-26.69
153	265.59	77	2.867568	1.817143	0.114035	77	3.09	-16.31	-20.35	-26.68
155	265.54	78	2.894595	1.831429	0.157895	78	3.1	-16.28	-20.33	-26.66
157	265.55	79	2.908108	1.845714	0.114035	79	3.1	-16.25	-20.33	-26.64
159	265.58	80	2.894595	1.917143	0.172515	80	3.11	-16.22	-20.31	-26.61
161	265.55	81	2.948649	1.974286	0.230994	81	3.1	-16.2	-20.3	-26.6
163	265.58	82	3.002703	2.031429	0.304094	82	3.1	-16.19	-20.3	-26.59
165	265.55	83	3.016216	2.002857	0.245614	83	3.11	-16.17	-20.29	-26.56
167	265.58	84	3.07027	2.031429	0.260234	84	3.11	-16.14	-20.28	-26.54
169	265.57	85	3.07027	2.031429	0.318713	85	3.12	-16.11	-20.27	-26.53
171	265.55	86	3.056757	2.088571	0.377193	86	3.11	-16.11	-20.27	-26.52
173	265.58	87	3.07027	2.117143	0.450292	87	3.12	-16.08	-20.26	-26.49
175	265.55	88	3.056757	2.117143	0.450292	88	3.12	-16.06	-20.25	-26.48
177	265.57	89	3.151351	2.16	0.377193	89	3.12	-16.03	-20.24	-26.45
179	265.55	90	3.205405	2.188571	0.391813	90	3.13	-16.01	-20.22	-26.43
181	265.58	91	3.232432	2.16	0.450292	91	3.13	-15.99	-20.22	-26.42
183	265.55	92	3.259459	2.231429	0.464912	92	3.13	-15.97	-20.22	-26.4
185	265.58	93	3.272973	2.217143	0.567251	93	3.14	-15.94	-20.2	-26.38
187	265.55	94	3.286486	2.231429	0.596491	94	3.13	-15.93	-20.2	-26.37

189	265.58	95	3.327027	2.26	0.596491	95	3.14	-15.91	-20.19	-26.35
191	265.55	96	3.340541	2.302857	0.640351	96	3.15	-15.89	-20.18	-26.33
193	265.58	97	3.340541	2.36	0.567251	97	3.15	-15.86	-20.17	-26.3
195	265.55	98	3.367568	2.331429	0.625731	98	3.16	-15.84	-20.16	-26.29
197	265.58	99	3.327027	2.388571	0.625731	99	3.16	-15.82	-20.15	-26.27
199	265.56	100	3.381081	2.374286	0.611111	100	3.16	-15.81	-20.15	-26.25
201	265.59	101	3.408108	2.36	0.654971	101	3.16	-15.79	-20.14	-26.23
203	265.56	102	3.421622	2.345714	0.69883	102	3.17	-15.76	-20.13	-26.21
205	265.59	103	3.448649	2.36	0.72807	103	3.17	-15.74	-20.12	-26.19
207	265.56	104	3.475676	2.46	0.80117	104	3.16	-15.73	-20.11	-26.18
209	265.59	105	3.516216	2.46	0.80117	105	3.16	-15.72	-20.12	-26.17
211	265.56	106	3.502703	2.474286	0.78655	106	3.17	-15.69	-20.1	-26.15
213	265.59	107	3.52973	2.474286	0.80117	107	3.18	-15.67	-20.09	-26.12
215	265.57	108	3.489189	2.445714	0.75731	108	3.19	-15.64	-20.07	-26.1
217	265.59	109	3.52973	2.445714	0.830409	109	3.18	-15.64	-20.07	-26.09
219	265.57	110	3.52973	2.488571	0.830409	110	3.19	-15.62	-20.07	-26.08
221	265.63	111	3.52973	2.531429	0.874269	111	3.2	-15.6	-20.05	-26.05
223	265.57	112	3.556757	2.56	0.888889	112	3.2	-15.56	-20.04	-26.03
225	265.57	113	3.556757	2.502857	0.859649	113	3.2	-15.54	-20.03	-26.01
227	265.57	114	3.583784	2.574286	0.947368	114	3.2	-15.53	-20.02	-26
229	265.6	115	3.624324	2.617143	0.961988	115	3.2	-15.52	-20.02	-25.99
231	265.6	116	3.610811	2.617143	0.932749	116	3.22	-15.5	-20.02	-25.96
233	265.57	117	3.610811	2.631429	0.991228	117	3.21	-15.48	-20.01	-25.95
235	265.6	118	3.624324	2.617143	1.005848	118	3.22	-15.46	-20	-25.93
237	265.57	119	3.624324	2.66	0.932749	119	3.22	-15.45	-20	-25.93
239	265.6	120	3.637838	2.602857	0.903509	120	3.23	-15.43	-20	-25.9
241	265.6	121	3.637838	2.588571	0.918129	121	3.24	-15.4	-19.98	-25.88
243	265.6	122	3.597297	2.617143	0.918129	122	3.24	-15.38	-19.97	-25.86
245	265.6	123	3.651351	2.702857	0.991228	123	3.24	-15.37	-19.96	-25.85
247	265.63	124	3.651351	2.674286	0.991228	124	3.24	-15.36	-19.96	-25.83
249	265.62	125	3.664865	2.688571	1.005848	125	3.24	-15.35	-19.96	-25.82
251	265.6	126	3.637838	2.717143	0.991228	126	3.24	-15.32	-19.95	-25.8
253	265.63	127	3.637838	2.731429	0.976608	127	3.25	-15.3	-19.93	-25.77
255	265.6	128	3.651351	2.717143	1.005848	128	3.25	-15.29	-19.92	-25.76
257	265.63	129	3.678378	2.788571	0.932749	129	3.25	-15.27	-19.92	-25.74
259	265.6	130	3.705405	2.831429	0.991228	130	3.25	-15.26	-19.91	-25.72
261	265.63	131	3.732432	2.76	1.020468	131	3.25	-15.23	-19.9	-25.7
263	265.6	132	3.718919	2.774286	0.976608	132	3.26	-15.21	-19.88	-25.68
265	265.61	133	3.745946	2.817143	1.020468	133	3.27	-15.2	-19.87	-25.65
267	265.59	134	3.786486	2.817143	1.020468	134	3.27	-15.18	-19.87	-25.64
269	265.61	135	3.8	2.874286	1.049708	135	3.27	-15.16	-19.86	-25.62
271	265.58	136	3.786486	2.86	1.035088	136	3.28	-15.14	-19.84	-25.6
273	265.62	137	3.786486	2.888571	1.064327	137	3.28	-15.14	-19.85	-25.59
275	265.58	138	3.759459	2.86	1.035088	138	3.28	-15.12	-19.85	-25.57
277	265.59	139	3.745946	2.888571	1.064327	139	3.28	-15.1	-19.84	-25.54

279	265.62	140	3.772973	2.874286	1.064327	140	3.29	-15.08	-19.83	-25.53
281	265.59	141	3.813514	2.902857	1.064327	141	3.28	-15.07	-19.82	-25.51
283	265.62	142	3.827027	2.845714	1.049708	142	3.29	-15.05	-19.81	-25.49
285	265.6	143	3.827027	2.845714	1.078947	143	3.3	-15.03	-19.8	-25.46
287	265.62	144	3.827027	2.888571	1.078947	144	3.3	-15.02	-19.8	-25.45
289	265.6	145	3.786486	2.917143	1.137427	145	3.3	-15	-19.79	-25.43
291	265.63	146	3.745946	2.917143	1.137427	146	3.31	-14.98	-19.77	-25.41
293	265.63	147	3.772973	2.888571	1.166667	147	3.31	-14.96	-19.76	-25.39
295	265.6	148	3.827027	2.874286	1.137427	148	3.32	-14.95	-19.76	-25.37
297	265.63	149	3.840541	2.902857	1.152047	149	3.32	-14.93	-19.75	-25.35
299	265.6	150	3.827027	2.931429	1.108187	150	3.32	-14.91	-19.74	-25.33
301	265.63	151	3.840541	2.888571	1.078947	151	3.32	-14.9	-19.73	-25.31
303	265.6	152	3.881081	2.945714	1.137427	152	3.33	-14.89	-19.72	-25.29
305	265.62	153	3.854054	2.931429	1.152047	153	3.33	-14.87	-19.72	-25.27
307	265.6	154	3.867568	2.931429	1.122807	154	3.34	-14.85	-19.71	-25.25
309	265.63	155	3.840541	2.931429	1.093567	155	3.34	-14.83	-19.69	-25.23
311	265.6	156	3.813514	2.931429	1.093567	156	3.35	-14.81	-19.68	-25.2
313	265.63	157	3.840541	2.96	1.122807	157	3.34	-14.81	-19.69	-25.19
315	265.63	158	3.827027	2.945714	1.152047	158	3.35	-14.78	-19.68	-25.17
317	265.6	159	3.813514	2.888571	1.122807	159	3.36	-14.76	-19.66	-25.14
319	265.63	160	3.840541	2.874286	1.152047	160	3.36	-14.74	-19.64	-25.12
321	265.69	161	3.854054	2.888571	1.137427	161	3.36	-14.74	-19.64	-25.11
323	265.6	162	3.867568	2.96	1.064327	162	3.36	-14.73	-19.64	-25.09
325	265.63	163	3.894595	2.974286	1.035088	163	3.37	-14.7	-19.63	-25.06
327	265.6	164	3.867568	2.96	1.078947	164	3.37	-14.68	-19.62	-25.04
329	265.63	165	3.894595	2.931429	1.064327	165	3.37	-14.67	-19.61	-25.03
331	265.6	166	3.854054	2.945714	1.093567	166	3.37	-14.67	-19.61	-25.02
333	265.68	167	3.867568	2.874286	1.152047	167	3.37	-14.65	-19.6	-24.99
335	265.63	168	3.894595	2.974286	1.137427	168	3.37	-14.63	-19.59	-24.97
337	265.61	169	3.935135	2.945714	1.137427	169	3.38	-14.61	-19.57	-24.96
339	265.64	170	3.894595	2.931429	1.122807	170	3.38	-14.61	-19.57	-24.94
341	265.62	171	3.827027	2.988571	1.166667	171	3.39	-14.58	-19.56	-24.92
343	265.65	172	3.8	2.902857	1.108187	172	3.39	-14.57	-19.55	-24.9
345	265.63	173	3.786486	2.888571	1.020468	173	3.4	-14.54	-19.53	-24.88
347	265.61	174	3.8	2.845714	1.064327	174	3.41	-14.53	-19.52	-24.86
349	265.64	175	3.813514	2.874286	1.078947	175	3.41	-14.52	-19.52	-24.84
351	265.61	176	3.813514	2.86	1.049708	176	3.41	-14.5	-19.51	-24.83
353	265.65	177	3.772973	2.845714	1.064327	177	3.41	-14.48	-19.5	-24.81
355	265.62	178	3.772973	2.831429	1.049708	178	3.42	-14.47	-19.49	-24.79
357	265.64	179	3.786486	2.817143	1.035088	179	3.42	-14.46	-19.49	-24.78
359	265.61	180	3.772973	2.86	1.005848	180	3.42	-14.44	-19.48	-24.77
361	265.64	181	3.772973	2.831429	0.947368	181	3.42	-14.42	-19.47	-24.75
363	265.64	182	3.759459	2.845714	0.991228	182	3.42	-14.42	-19.47	-24.74
365	265.61	183	3.718919	2.845714	1.020468	183	3.42	-14.41	-19.47	-24.73
367	265.64	184	3.745946	2.802857	0.961988	184	3.43	-14.39	-19.46	-24.71

369	265.61	185	3.678378	2.76	1.005848	185	3.43	-14.37	-19.45	-24.69
371	265.64	186	3.678378	2.702857	0.961988	186	3.43	-14.36	-19.44	-24.68
373	265.62	187	3.678378	2.731429	0.888889	187	3.44	-14.35	-19.44	-24.67
375	265.65	188	3.664865	2.702857	0.888889	188	3.44	-14.33	-19.43	-24.65
377	265.6	189	3.624324	2.66	0.874269	189	3.44	-14.31	-19.42	-24.64
379	265.61	190	3.597297	2.66	0.815789	190	3.44	-14.31	-19.41	-24.63
381	265.64	191	3.556757	2.731429	0.830409	191	3.45	-14.3	-19.41	-24.61
383	265.62	192	3.543243	2.702857	0.80117	192	3.45	-14.28	-19.4	-24.6
385	265.65	193	3.543243	2.631429	0.77193	193	3.46	-14.26	-19.39	-24.58
387	265.62	194	3.556757	2.617143	0.72807	194	3.46	-14.25	-19.38	-24.57
389	265.64	195	3.52973	2.588571	0.669591	195	3.46	-14.25	-19.38	-24.56
391	265.62	196	3.489189	2.574286	0.69883	196	3.46	-14.23	-19.37	-24.55
393	265.65	197	3.489189	2.545714	0.74269	197	3.47	-14.2	-19.35	-24.52
395	265.62	198	3.502703	2.531429	0.72807	198	3.47	-14.2	-19.35	-24.51
397	265.65	199	3.489189	2.488571	0.640351	199	3.46	-14.19	-19.35	-24.5
399	265.62	200	3.475676	2.488571	0.611111	200	3.47	-14.18	-19.35	-24.49
401	265.65	201	3.448649	2.488571	0.654971	201	3.47	-14.16	-19.34	-24.48
403	265.62	202	3.462162	2.417143	0.654971	202	3.48	-14.14	-19.32	-24.46
405	265.65	203	3.367568	2.402857	0.611111	203	3.48	-14.13	-19.31	-24.44
407	265.62	204	3.367568	2.374286	0.581871	204	3.48	-14.13	-19.31	-24.44
409	265.65	205	3.367568	2.36	0.538012	205	3.48	-14.1	-19.3	-24.42
411	265.64	206	3.327027	2.331429	0.567251	206	3.49	-14.09	-19.28	-24.41
413	265.62	207	3.3	2.245714	0.464912	207	3.49	-14.09	-19.29	-24.4
415	265.64	208	3.245946	2.288571	0.391813	208	3.49	-14.07	-19.29	-24.39
417	265.64	209	3.218919	2.288571	0.435673	209	3.49	-14.06	-19.28	-24.38
419	265.64	210	3.218919	2.174286	0.435673	210	3.49	-14.05	-19.27	-24.37
421	265.64	211	3.205405	2.16	0.347953	211	3.5	-14.04	-19.27	-24.35
423	265.65	212	3.151351	2.131429	0.304094	212	3.5	-14.02	-19.26	-24.34
425	265.61	213	3.110811	2.102857	0.289474	213	3.51	-14	-19.24	-24.32
427	265.64	214	3.02973	2.045714	0.289474	214	3.51	-13.99	-19.23	-24.31
429	265.61	215	3.016216	1.988571	0.216374	215	3.52	-13.98	-19.22	-24.3
431	265.64	216	2.962162	1.945714	0.172515	216	3.52	-13.97	-19.22	-24.29
433	265.62	217	2.894595	1.931429	0.172515	217	3.52	-13.96	-19.22	-24.28
435	265.63	218	2.881081	1.86	0.099415	218	3.52	-13.95	-19.22	-24.27
437	265.61	219	2.867568	1.788571	0.099415	219	3.52	-13.94	-19.2	-24.25
439	265.65	220	2.827027	1.802857	0.070175	220	3.52	-13.93	-19.2	-24.24
441	265.64	221	2.813514	1.774286	0.157895	221	3.52	-13.93	-19.21	-24.24
443	265.66	222	2.745946	1.731429	0.040936	222	3.52	-13.9	-19.19	-24.22
445	265.64	223	2.691892	1.745714	0.090643	223	3.52	-13.89	-19.18	-24.21
447	265.64	224	2.678378	1.688571	0.134503	224	3.53	-13.89	-19.19	-24.2
449	265.63	225	2.637838	1.617143	0.134503	225	3.53	-13.88	-19.18	-24.19
451	265.62	226	2.583784	1.56	0.222222	226	3.54	-13.85	-19.16	-24.17
453	265.65	227	2.556757	1.517143	0.280702	227	3.54	-13.84	-19.15	-24.16
455	265.62	228	2.52973	1.488571	0.295322	228	3.55	-13.84	-19.15	-24.15
457	265.65	229	2.462162	1.388571	0.280702	229	3.55	-13.83	-19.15	-24.14

459	265.62	230	2.408108	1.388571	0.368421	230	3.55	-13.81	-19.14	-24.13
461	265.65	231	2.354054	1.331429	0.426901	231	3.54	-13.79	-19.14	-24.12
463	265.63	232	2.313514	1.288571	0.426901	232	3.55	-13.79	-19.13	-24.11
465	265.63	233	2.3	1.288571	0.51462	233	3.56	-13.78	-19.12	-24.09
467	265.64	234	2.232432	1.274286	0.573099	234	3.55	-13.78	-19.13	-24.09
469	265.63	235	2.164865	1.174286	0.602339	235	3.54	-13.77	-19.13	-24.09
471	265.64	236	2.110811	1.131429	0.646199	236	3.55	-13.75	-19.11	-24.07
473	265.62	237	2.043243	1.06	0.763158	237	3.55	-13.75	-19.11	-24.07
475	265.65	238	2.02973	1.074286	0.850877	238	3.55	-13.74	-19.11	-24.06
477	265.62	239	2.02973	1.017143	0.880117	239	3.55	-13.73	-19.1	-24.05
479	265.65	240	1.975676	0.945714	0.982456	240	3.55	-13.72	-19.09	-24.04
481	265.61	241	1.921622	0.931429	0.894737	241	3.55	-13.71	-19.08	-24.03
483	265.63	242	1.881081	0.874286	0.997076	242	3.55	-13.7	-19.09	-24.02
485	265.65	243	1.786486	0.831429	1.084795	243	3.55	-13.69	-19.08	-24.01
487	265.65	244	1.732432	0.76	1.143275	244	3.55	-13.68	-19.07	-24
489	265.65	245	1.678378	0.674286	1.201754	245	3.55	-13.67	-19.07	-24
491	265.63	246	1.678378	0.66	1.172515	246	3.56	-13.66	-19.07	-23.99
493	265.66	247	1.651351	0.617143	1.274854	247	3.56	-13.66	-19.06	-23.97
495	265.63	248	1.57027	0.602857	1.347953	248	3.56	-13.65	-19.06	-23.97
497	265.66	249	1.489189	0.617143	1.421053	249	3.56	-13.63	-19.04	-23.95
499	265.63	250	1.448649	0.574286	1.494152	250	3.56	-13.63	-19.04	-23.94
501	265.66	251	1.421622	0.517143	1.581871	251	3.57	-13.61	-19.03	-23.93
503	265.63	252	1.381081	0.431429	1.581871	252	3.57	-13.6	-19.03	-23.91
505	265.66	253	1.381081	0.417143	1.611111	253	3.57	-13.59	-19.02	-23.9
507	265.63	254	1.3	0.374286	1.669591	254	3.57	-13.58	-19.01	-23.9
509	265.66	255	1.259459	0.374286	1.75731	255	3.58	-13.57	-19	-23.88
511	265.65	256	1.178378	0.317143	1.815789	256	3.57	-13.58	-19.01	-23.89
513	265.66	257	1.191892	0.274286	1.78655	257	3.57	-13.55	-19	-23.87
515	265.62	258	1.124324	0.274286	1.815789	258	3.58	-13.53	-18.98	-23.85
517	265.66	259	1.097297	0.217143	1.859649	259	3.58	-13.53	-18.98	-23.85
519	265.66	260	1.043243	0.145714	1.874269	260	3.58	-13.52	-18.99	-23.84
521	265.63	261	1.016216	0.131429	1.947368	261	3.58	-13.51	-18.98	-23.84
523	265.66	262	0.962162	0.088571	1.991228	262	3.58	-13.5	-18.97	-23.83
525	265.64	263	0.921622	0.002857	2.020468	263	3.59	-13.49	-18.97	-23.82
527	265.66	264	0.867568	0.002857	2.093567	264	3.58	-13.49	-18.97	-23.81
529	265.63	265	0.854054	0.045714	2.122807	265	3.59	-13.47	-18.96	-23.8
531	265.66	266	0.867568	0.074286	2.152047	266	3.59	-13.46	-18.95	-23.79
533	265.64	267	0.867568	0.002857	2.195906	267	3.59	-13.45	-18.95	-23.78
535	265.64	268	0.854054	0.04	2.225146	268	3.6	-13.45	-18.94	-23.77
537	265.63	269	0.8	0.097143	2.283626	269	3.59	-13.44	-18.94	-23.77
539	265.66	270	0.759459	0.097143	2.342105	270	3.6	-13.42	-18.93	-23.75
541	265.63	271	0.732432	0.082857	2.342105	271	3.6	-13.42	-18.92	-23.75
543	265.67	272	0.705405	0.125714	2.342105	272	3.6	-13.42	-18.93	-23.74
545	265.63	273	0.691892	0.154286	2.356725	273	3.61	-13.4	-18.92	-23.73
547	265.66	274	0.678378	0.211429	2.429825	274	3.61	-13.38	-18.91	-23.72

549	265.66	275	0.651351	0.297143	2.488304	275	3.61	-13.38	-18.91	-23.72
551	265.64	276	0.597297	0.311429	2.444444	276	3.61	-13.38	-18.91	-23.71
553	265.66	277	0.543243	0.297143	2.532164	277	3.61	-13.38	-18.92	-23.71
555	265.64	278	0.502703	0.297143	2.517544	278	3.6	-13.38	-18.92	-23.71
557	265.67	279	0.462162	0.354286	2.590643	279	3.61	-13.35	-18.9	-23.69
559	265.64	280	0.421622	0.397143	2.576023	280	3.61	-13.35	-18.9	-23.68
561	265.64	281	0.394595	0.425714	2.663743	281	3.61	-13.35	-18.91	-23.68
563	265.67	282	0.421622	0.425714	2.663743	282	3.61	-13.34	-18.91	-23.67
565	265.64	283	0.394595	0.44	2.634503	283	3.61	-13.33	-18.9	-23.67
567	265.67	284	0.354054	0.497143	2.634503	284	3.61	-13.32	-18.9	-23.66
569	265.64	285	0.313514	0.568571	2.634503	285	3.61	-13.31	-18.88	-23.65
571	265.7	286	0.272973	0.568571	2.707602	286	3.61	-13.32	-18.9	-23.65
573	265.64	287	0.259459	0.54	2.795322	287	3.61	-13.3	-18.89	-23.64
575	265.7	288	0.232432	0.582857	2.766082	288	3.61	-13.29	-18.88	-23.64
577	265.63	289	0.232432	0.582857	2.795322	289	3.6	-13.3	-18.88	-23.64
579	265.67	290	0.245946	0.582857	2.839181	290	3.6	-13.29	-18.88	-23.64
581	265.65	291	0.245946	0.64	2.883041	291	3.61	-13.28	-18.88	-23.63
583	265.67	292	0.164865	0.625714	2.853801	292	3.61	-13.26	-18.87	-23.61
585	265.66	293	0.097297	0.654286	2.868421	293	3.61	-13.26	-18.87	-23.61
587	265.64	294	0.137838	0.682857	2.95614	294	3.61	-13.26	-18.86	-23.6
589	265.67	295	0.178378	0.725714	2.912281	295	3.61	-13.26	-18.87	-23.6
591	265.65	296	0.151351	0.754286	2.94152	296	3.61	-13.24	-18.86	-23.59
593	265.67	297	0.083784	0.74	2.94152	297	3.62	-13.22	-18.84	-23.57
595	265.65	298	0.016216	0.754286	2.98538	298	3.62	-13.23	-18.85	-23.57
597	265.67	299	0.002703	0.754286	3.05848	299	3.62	-13.22	-18.85	-23.57
599	265.64	300	0.002703	0.768571	3.073099	300	3.62	-13.22	-18.85	-23.57
601	265.67	301	0.002703	0.811429	3.073099	301	3.62	-13.2	-18.84	-23.56
603	265.64	302	0.024324	0.911429	3.073099	302	3.62	-13.2	-18.83	-23.55
605	265.67	303	0.051351	0.925714	3.146199	303	3.61	-13.2	-18.84	-23.55
607	265.64	304	0.091892	0.897143	3.190058	304	3.62	-13.19	-18.84	-23.54
609	265.69	305	0.105405	0.897143	3.175439	305	3.62	-13.18	-18.83	-23.53
611	265.66	306	0.078378	0.911429	3.175439	306	3.63	-13.17	-18.82	-23.52
613	265.68	307	0.118919	0.954286	3.146199	307	3.63	-13.16	-18.81	-23.51
615	265.64	308	0.145946	0.954286	3.190058	308	3.62	-13.16	-18.82	-23.51
617	265.69	309	0.172973	0.94	3.219298	309	3.63	-13.15	-18.81	-23.5
619	265.68	310	0.213514	1.011429	3.219298	310	3.62	-13.14	-18.81	-23.5
621	265.75	311	0.186486	1.068571	3.233918	311	3.62	-13.14	-18.81	-23.5
623	265.64	312	0.145946	1.04	3.277778	312	3.63	-13.13	-18.8	-23.49
625	265.68	313	0.172973	1.054286	3.277778	313	3.63	-13.13	-18.8	-23.49
627	265.65	314	0.240541	1.04	3.292398	314	3.63	-13.11	-18.79	-23.47
629	265.68	315	0.294595	1.082857	3.336257	315	3.63	-13.1	-18.78	-23.46
631	265.66	316	0.335135	1.082857	3.423977	316	3.63	-13.1	-18.78	-23.46
633	265.69	317	0.348649	1.111429	3.380117	317	3.64	-13.1	-18.78	-23.45
635	265.64	318	0.348649	1.054286	3.380117	318	3.64	-13.09	-18.78	-23.45
637	265.68	319	0.321622	1.14	3.409357	319	3.64	-13.08	-18.77	-23.44

639	265.65	320	0.362162	1.182857	3.394737	320	3.64	-13.08	-18.77	-23.44
641	265.68	321	0.389189	1.168571	3.394737	321	3.63	-13.08	-18.78	-23.44
643	265.65	322	0.402703	1.154286	3.438596	322	3.64	-13.06	-18.76	-23.43
645	265.66	323	0.389189	1.182857	3.453216	323	3.64	-13.05	-18.75	-23.42
647	265.68	324	0.42973	1.154286	3.482456	324	3.64	-13.06	-18.76	-23.43
649	265.66	325	0.47027	1.211429	3.497076	325	3.65	-13.05	-18.76	-23.41
651	265.68	326	0.42973	1.211429	3.526316	326	3.65	-13.03	-18.75	-23.4
653	265.65	327	0.483784	1.197143	3.511696	327	3.64	-13.03	-18.75	-23.4
655	265.68	328	0.443243	1.225714	3.526316	328	3.64	-13.04	-18.75	-23.4
657	265.65	329	0.416216	1.254286	3.540936	329	3.64	-13.03	-18.75	-23.39
659	265.69	330	0.456757	1.24	3.628655	330	3.64	-13.02	-18.75	-23.39
661	265.65	331	0.497297	1.297143	3.643275	331	3.64	-13.01	-18.74	-23.39
663	265.68	332	0.564865	1.268571	3.614035	332	3.64	-13.01	-18.74	-23.38
665	265.66	333	0.510811	1.297143	3.672515	333	3.65	-13.01	-18.74	-23.38
667	265.69	334	0.510811	1.354286	3.701754	334	3.65	-12.99	-18.73	-23.37
669	265.66	335	0.510811	1.368571	3.672515	335	3.65	-12.99	-18.72	-23.36
671	265.68	336	0.564865	1.368571	3.672515	336	3.65	-12.98	-18.72	-23.36
673	265.65	337	0.537838	1.397143	3.760234	337	3.65	-12.98	-18.73	-23.35
675	265.68	338	0.591892	1.411429	3.789474	338	3.66	-12.97	-18.73	-23.35
677	265.68	339	0.591892	1.411429	3.818713	339	3.67	-12.96	-18.72	-23.34
679	265.7	340	0.618919	1.454286	3.789474	340	3.66	-12.96	-18.72	-23.34
681	265.65	341	0.605405	1.425714	3.730994	341	3.66	-12.96	-18.71	-23.34
683	265.69	342	0.632432	1.425714	3.701754	342	3.66	-12.96	-18.72	-23.33
685	265.69	343	0.672973	1.497143	3.789474	343	3.66	-12.95	-18.72	-23.33
687	265.69	344	0.7	1.497143	3.847953	344	3.66	-12.94	-18.71	-23.32
689	265.65	345	0.727027	1.497143	3.862573	345	3.66	-12.94	-18.71	-23.32
691	265.7	346	0.727027	1.511429	3.862573	346	3.66	-12.94	-18.71	-23.32
693	265.65	347	0.781081	1.597143	3.789474	347	3.66	-12.94	-18.72	-23.32
695	265.68	348	0.740541	1.611429	3.833333	348	3.66	-12.93	-18.72	-23.31
697	265.65	349	0.740541	1.568571	3.862573	349	3.66	-12.92	-18.71	-23.3
699	265.69	350	0.740541	1.611429	3.847953	350	3.66	-12.91	-18.71	-23.3
701	265.69	351	0.767568	1.64	3.847953	351	3.66	-12.91	-18.71	-23.3
703	265.66	352	0.821622	1.611429	3.906433	352	3.66	-12.91	-18.71	-23.3
705	265.69	353	0.835135	1.582857	3.921053	353	3.66	-12.9	-18.7	-23.29
707	265.66	354	0.875676	1.668571	3.935673	354	3.66	-12.9	-18.7	-23.29
709	265.69	355	0.875676	1.697143	3.994152	355	3.67	-12.89	-18.69	-23.28
711	265.66	356	0.875676	1.668571	4.008772	356	3.67	-12.89	-18.7	-23.28
713	265.69	357	0.848649	1.597143	3.979532	357	3.66	-12.88	-18.69	-23.27
715	265.69	358	0.862162	1.654286	4.038012	358	3.66	-12.87	-18.68	-23.26
717	265.69	359	0.902703	1.711429	4.052632	359	3.66	-12.88	-18.69	-23.27
719	265.66	360	0.916216	1.754286	4.038012	360	3.67	-12.87	-18.69	-23.26
721	265.7	361	0.92973	1.725714	4.023392	361	3.66	-12.87	-18.69	-23.26
723	265.67	362	0.943243	1.711429	4.081871	362	3.67	-12.86	-18.68	-23.25
725	265.71	363	0.943243	1.697143	4.111111	363	3.66	-12.86	-18.68	-23.25
727	265.67	364	0.902703	1.754286	4.081871	364	3.67	-12.85	-18.67	-23.25

729	265.7	365	0.943243	1.782857	4.111111	365	3.68	-12.85	-18.67	-23.24
731	265.68	366	0.983784	1.811429	4.111111	366	3.67	-12.84	-18.67	-23.24
733	265.7	367	0.997297	1.811429	4.096491	367	3.68	-12.83	-18.66	-23.23
735	265.67	368	1.010811	1.825714	4.140351	368	3.67	-12.83	-18.66	-23.24
737	265.7	369	0.983784	1.811429	4.184211	369	3.67	-12.84	-18.67	-23.24
739	265.67	370	0.997297	1.797143	4.184211	370	3.67	-12.83	-18.67	-23.23
741	265.71	371	1.051351	1.782857	4.154971	371	3.67	-12.83	-18.66	-23.22
743	265.67	372	1.024324	1.768571	4.169591	372	3.67	-12.82	-18.65	-23.22
745	265.68	373	1.024324	1.854286	4.169591	373	3.67	-12.83	-18.66	-23.22
747	265.71	374	1.037838	1.825714	4.19883	374	3.67	-12.82	-18.66	-23.21
749	265.68	375	1.051351	1.811429	4.22807	375	3.68	-12.81	-18.66	-23.21
751	265.71	376	1.037838	1.868571	4.21345	376	3.68	-12.8	-18.65	-23.2
753	265.69	377	1.024324	1.94	4.25731	377	3.67	-12.8	-18.64	-23.2
755	265.71	378	1.051351	1.925714	4.24269	378	3.68	-12.79	-18.64	-23.19
757	265.68	379	1.078378	1.897143	4.27193	379	3.68	-12.79	-18.65	-23.19
759	265.69	380	1.118919	1.897143	4.315789	380	3.68	-12.79	-18.64	-23.19
761	265.71	381	1.118919	1.868571	4.315789	381	3.68	-12.78	-18.64	-23.19
763	265.69	382	1.091892	1.868571	4.28655	382	3.68	-12.77	-18.64	-23.18
765	265.71	383	1.105405	1.925714	4.330409	383	3.68	-12.77	-18.63	-23.18
767	265.68	384	1.105405	1.94	4.345029	384	3.68	-12.77	-18.64	-23.18
769	265.71	385	1.118919	1.954286	4.28655	385	3.69	-12.75	-18.62	-23.17
771	265.68	386	1.172973	1.968571	4.330409	386	3.69	-12.75	-18.62	-23.17
773	265.72	387	1.159459	1.925714	4.30117	387	3.7	-12.75	-18.62	-23.16
775	265.71	388	1.118919	1.94	4.28655	388	3.69	-12.75	-18.63	-23.16
777	265.71	389	1.145946	1.997143	4.27193	389	3.69	-12.74	-18.62	-23.16
779	265.71	390	1.132432	2.04	4.30117	390	3.69	-12.74	-18.61	-23.16
781	265.68	391	1.172973	2.04	4.345029	391	3.7	-12.74	-18.61	-23.15
783	265.71	392	1.172973	1.997143	4.403509	392	3.69	-12.74	-18.62	-23.15
785	265.68	393	1.227027	1.968571	4.345029	393	3.7	-12.72	-18.61	-23.14
787	265.71	394	1.227027	2.011429	4.330409	394	3.7	-12.72	-18.6	-23.13
789	265.68	395	1.213514	2.011429	4.388889	395	3.7	-12.72	-18.6	-23.13
791	265.71	396	1.186486	2.054286	4.418129	396	3.7	-12.72	-18.6	-23.14
793	265.67	397	1.227027	2.011429	4.403509	397	3.7	-12.71	-18.6	-23.13
795	265.75	398	1.227027	2.011429	4.374269	398	3.69	-12.71	-18.61	-23.14
797	265.67	399	1.254054	2.011429	4.388889	399	3.69	-12.71	-18.6	-23.13
799	265.68	400	1.254054	2.054286	4.432749	400	3.71	-12.71	-18.6	-23.12
801	265.7	401	1.308108	2.082857	4.447368	401	3.7	-12.71	-18.61	-23.13
803	265.68	402	1.348649	2.025714	4.447368	402	3.7	-12.69	-18.6	-23.12
805	265.71	403	1.321622	2.04	4.476608	403	3.71	-12.69	-18.58	-23.11
807	265.68	404	1.335135	2.011429	4.476608	404	3.71	-12.69	-18.58	-23.11
809	265.71	405	1.308108	2.025714	4.476608	405	3.71	-12.68	-18.59	-23.1
811	265.68	406	1.321622	2.111429	4.476608	406	3.71	-12.68	-18.58	-23.1
813	265.71	407	1.308108	2.111429	4.461988	407	3.71	-12.67	-18.57	-23.09
815	265.71	408	1.294595	2.14	4.432749	408	3.71	-12.67	-18.58	-23.09
817	265.72	409	1.348649	2.168571	4.461988	409	3.7	-12.68	-18.59	-23.09

819	265.7	410	1.348649	2.182857	4.535088	410	3.7	-12.67	-18.59	-23.09
821	265.71	411	1.375676	2.168571	4.505848	411	3.7	-12.66	-18.58	-23.08
823	265.68	412	1.375676	2.14	4.491228	412	3.7	-12.66	-18.57	-23.08
825	265.77	413	1.348649	2.197143	4.505848	413	3.71	-12.66	-18.57	-23.08
827	265.71	414	1.389189	2.168571	4.520468	414	3.7	-12.66	-18.57	-23.08
829	265.69	415	1.402703	2.168571	4.505848	415	3.71	-12.65	-18.56	-23.08
831	265.72	416	1.389189	2.168571	4.535088	416	3.71	-12.65	-18.56	-23.08
833	265.69	417	1.42973	2.125714	4.505848	417	3.71	-12.65	-18.57	-23.07
835	265.72	418	1.416216	2.182857	4.491228	418	3.71	-12.64	-18.56	-23.07
837	265.69	419	1.42973	2.197143	4.491228	419	3.71	-12.63	-18.55	-23.06
839	265.72	420	1.443243	2.254286	4.535088	420	3.71	-12.64	-18.56	-23.07
841	265.69	421	1.47027	2.154286	4.520468	421	3.71	-12.63	-18.56	-23.06
843	265.71	422	1.443243	2.211429	4.564327	422	3.71	-12.62	-18.55	-23.05
845	265.69	423	1.416216	2.254286	4.535088	423	3.72	-12.61	-18.54	-23.04
847	265.72	424	1.416216	2.225714	4.505848	424	3.72	-12.61	-18.53	-23.04
849	265.7	425	1.42973	2.197143	4.535088	425	3.72	-12.62	-18.55	-23.05
851	265.72	426	1.47027	2.225714	4.564327	426	3.72	-12.6	-18.54	-23.03
853	265.72	427	1.47027	2.211429	4.578947	427	3.72	-12.6	-18.54	-23.03
855	265.72	428	1.47027	2.24	4.608187	428	3.72	-12.59	-18.53	-23.03
857	265.69	429	1.443243	2.24	4.520468	429	3.72	-12.6	-18.53	-23.03
859	265.71	430	1.42973	2.268571	4.608187	430	3.72	-12.6	-18.54	-23.03
861	265.69	431	1.483784	2.282857	4.681287	431	3.72	-12.59	-18.54	-23.02
863	265.72	432	1.524324	2.297143	4.637427	432	3.72	-12.59	-18.53	-23.03
865	265.69	433	1.537838	2.268571	4.622807	433	3.73	-12.59	-18.53	-23.02
867	265.72	434	1.510811	2.268571	4.666667	434	3.72	-12.59	-18.53	-23.02
869	265.69	435	1.483784	2.311429	4.710526	435	3.72	-12.59	-18.54	-23.02
871	265.72	436	1.483784	2.282857	4.652047	436	3.72	-12.58	-18.54	-23.02
873	265.69	437	1.47027	2.297143	4.652047	437	3.72	-12.58	-18.52	-23.01
875	265.72	438	1.497297	2.34	4.637427	438	3.72	-12.58	-18.52	-23.01
877	265.72	439	1.497297	2.397143	4.593567	439	3.72	-12.58	-18.53	-23.01
879	265.72	440	1.510811	2.382857	4.652047	440	3.72	-12.57	-18.53	-23
881	265.72	441	1.537838	2.382857	4.652047	441	3.73	-12.56	-18.52	-23
883	265.7	442	1.564865	2.34	4.695906	442	3.73	-12.56	-18.51	-22.99
885	265.73	443	1.524324	2.311429	4.593567	443	3.73	-12.57	-18.51	-23
887	265.7	444	1.564865	2.325714	4.622807	444	3.73	-12.55	-18.52	-22.99
889	265.73	445	1.605405	2.354286	4.666667	445	3.73	-12.54	-18.51	-22.98
891	265.7	446	1.578378	2.368571	4.652047	446	3.73	-12.55	-18.51	-22.99
893	265.73	447	1.564865	2.354286	4.637427	447	3.72	-12.56	-18.52	-22.99
895	265.7	448	1.578378	2.354286	4.652047	448	3.72	-12.55	-18.52	-22.99
897	265.73	449	1.564865	2.411429	4.666667	449	3.72	-12.55	-18.52	-22.99
899	265.7	450	1.524324	2.411429	4.725146	450	3.72	-12.55	-18.53	-22.99
901	265.73	451	1.537838	2.354286	4.695906	451	3.72	-12.55	-18.53	-22.99
903	265.73	452	1.591892	2.368571	4.710526	452	3.72	-12.54	-18.53	-22.99
905	265.7	453	1.618919	2.454286	4.695906	453	3.73	-12.54	-18.53	-22.99
907	265.73	454	1.605405	2.44	4.754386	454	3.73	-12.53	-18.51	-22.98

909	265.7	455	1.564865	2.411429	4.739766	455	3.73	-12.54	-18.52	-22.99
911	265.73	456	1.551351	2.411429	4.695906	456	3.72	-12.54	-18.53	-22.99
913	265.7	457	1.578378	2.44	4.681287	457	3.73	-12.53	-18.53	-22.98
915	265.73	458	1.618919	2.454286	4.798246	458	3.73	-12.53	-18.52	-22.98
917	265.71	459	1.645946	2.44	4.842105	459	3.73	-12.53	-18.52	-22.98
919	265.76	460	1.632432	2.425714	4.798246	460	3.73	-12.53	-18.52	-22.99
921	265.74	461	1.591892	2.425714	4.769006	461	3.72	-12.53	-18.53	-22.99
923	265.74	462	1.632432	2.468571	4.769006	462	3.73	-12.53	-18.52	-22.98
925	265.71	463	1.659459	2.497143	4.856725	463	3.73	-12.52	-18.52	-22.98
927	265.76	464	1.659459	2.425714	4.827485	464	3.73	-12.52	-18.53	-22.98
929	265.7	465	1.632432	2.44	4.812865	465	3.73	-12.52	-18.52	-22.97
931	265.71	466	1.578378	2.497143	4.769006	466	3.72	-12.52	-18.52	-22.97
933	265.73	467	1.618919	2.497143	4.798246	467	3.73	-12.51	-18.52	-22.97
935	265.71	468	1.645946	2.511429	4.827485	468	3.72	-12.51	-18.51	-22.97
937	265.73	469	1.632432	2.468571	4.798246	469	3.72	-12.52	-18.52	-22.97
939	265.71	470	1.659459	2.454286	4.754386	470	3.73	-12.51	-18.52	-22.96
941	265.73	471	1.659459	2.482857	4.812865	471	3.73	-12.5	-18.51	-22.96
943	265.71	472	1.645946	2.525714	4.827485	472	3.73	-12.49	-18.49	-22.95
945	265.73	473	1.659459	2.568571	4.885965	473	3.73	-12.49	-18.49	-22.95
947	265.71	474	1.672973	2.511429	4.900585	474	3.73	-12.5	-18.5	-22.95
949	265.74	475	1.7	2.554286	4.885965	475	3.72	-12.5	-18.5	-22.95
951	265.71	476	1.740541	2.554286	4.842105	476	3.72	-12.5	-18.5	-22.96
953	265.74	477	1.713514	2.568571	4.871345	477	3.72	-12.5	-18.5	-22.96
955	265.7	478	1.727027	2.482857	4.900585	478	3.73	-12.49	-18.5	-22.95
957	265.74	479	1.740541	2.525714	4.900585	479	3.73	-12.49	-18.5	-22.94
959	265.71	480	1.713514	2.582857	4.959064	480	3.73	-12.48	-18.49	-22.94
961	265.74	481	1.713514	2.568571	4.885965	481	3.73	-12.48	-18.48	-22.93
963	265.71	482	1.767568	2.54	4.900585	482	3.73	-12.48	-18.48	-22.94
965	265.74	483	1.767568	2.54	4.915205	483	3.72	-12.49	-18.49	-22.94
967	265.72	484	1.767568	2.582857	4.944444	484	3.73	-12.48	-18.49	-22.94
969	265.74	485	1.754054	2.554286	4.900585	485	3.72	-12.48	-18.5	-22.94
971	265.74	486	1.781081	2.554286	4.900585	486	3.73	-12.47	-18.48	-22.93
973	265.74	487	1.767568	2.568571	4.915205	487	3.73	-12.48	-18.49	-22.94
975	265.71	488	1.794595	2.497143	4.915205	488	3.73	-12.47	-18.49	-22.93
977	265.74	489	1.808108	2.568571	4.944444	489	3.74	-12.46	-18.48	-22.92
979	265.71	490	1.808108	2.582857	4.944444	490	3.75	-12.45	-18.47	-22.92
981	265.74	491	1.835135	2.582857	4.973684	491	3.74	-12.46	-18.49	-22.92
983	265.71	492	1.821622	2.54	5.002924	492	3.74	-12.46	-18.49	-22.92
985	265.74	493	1.781081	2.54	5.017544	493	3.74	-12.45	-18.48	-22.92
987	265.71	494	1.794595	2.611429	5.002924	494	3.74	-12.46	-18.48	-22.93
989	265.74	495	1.794595	2.64	4.973684	495	3.74	-12.46	-18.48	-22.93
991	265.74	496	1.821622	2.611429	4.973684	496	3.75	-12.45	-18.48	-22.92
		497	1.767568	2.625714	4.944444	497	3.75	-12.44	-18.48	-22.92
		498	1.767568	2.625714	5.017544	498	3.74	-12.45	-18.48	-22.93
		499	1.767568	2.625714	4.988304	499	3.75	-12.45	-18.48	-22.92

500	1.835135	2.64	4.915205	500	3.75	-12.45	-18.48	-22.92
501	1.835135	2.64	5.002924	501	3.75	-12.44	-18.48	-22.91
502	1.835135	2.64	5.046784	502	3.75	-12.44	-18.47	-22.91
503	1.821622	2.64	5.076023	503	3.75	-12.43	-18.47	-22.91
504	1.808108	2.668571	5.149123	504	3.75	-12.44	-18.48	-22.91
505	1.808108	2.654286	5.119883	505	3.75	-12.45	-18.49	-22.92
506	1.821622	2.64	5.017544	506	3.76	-12.43	-18.48	-22.91
507	1.821622	2.668571	5.017544	507	3.76	-12.43	-18.46	-22.9
508	1.862162	2.697143	5.061404	508	3.75	-12.44	-18.47	-22.91
509	1.889189	2.697143	5.046784	509	3.75	-12.44	-18.48	-22.91
510	1.848649	2.725714	5.061404	510	3.75	-12.42	-18.47	-22.9
511	1.862162	2.697143	5.017544	511	3.75	-12.43	-18.46	-22.9
512	1.889189	2.711429	5.061404	512	3.75	-12.43	-18.46	-22.9
513	1.875676	2.668571	5.090643	513	3.75	-12.43	-18.47	-22.91
514	1.862162	2.654286	5.105263	514	3.75	-12.42	-18.46	-22.9
515	1.862162	2.654286	5.119883	515	3.75	-12.41	-18.45	-22.89
516	1.889189	2.682857	5.046784	516	3.75	-12.42	-18.45	-22.89
517	1.875676	2.725714	5.076023	517	3.75	-12.42	-18.47	-22.89
518	1.889189	2.725714	5.119883	518	3.74	-12.42	-18.47	-22.9
519	1.902703	2.74	5.134503	519	3.75	-12.41	-18.46	-22.89
520	1.889189	2.725714	5.178363	520	3.74	-12.41	-18.46	-22.9
521	1.902703	2.668571	5.163743	521	3.75	-12.42	-18.46	-22.9
522	1.916216	2.697143	5.192982	522	3.75	-12.41	-18.47	-22.89
523	1.943243	2.697143	5.119883	523	3.74	-12.41	-18.46	-22.89
524	1.943243	2.754286	5.061404	524	3.74	-12.41	-18.46	-22.89
525	1.943243	2.725714	5.119883	525	3.74	-12.41	-18.46	-22.89
526	1.943243	2.725714	5.119883	526	3.75	-12.41	-18.46	-22.88
527	1.943243	2.725714	5.178363	527	3.75	-12.4	-18.45	-22.88
528	1.943243	2.725714	5.163743	528	3.75	-12.39	-18.45	-22.88
529	1.956757	2.725714	5.090643	529	3.75	-12.4	-18.45	-22.88
530	1.956757	2.74	5.105263	530	3.75	-12.41	-18.46	-22.88
531	1.92973	2.782857	5.134503	531	3.75	-12.4	-18.46	-22.88
532	1.956757	2.754286	5.149123	532	3.75	-12.39	-18.45	-22.88
533	1.956757	2.754286	5.178363	533	3.75	-12.39	-18.45	-22.88
534	1.956757	2.754286	5.192982	534	3.75	-12.4	-18.45	-22.88
535	1.943243	2.697143	5.105263	535	3.76	-12.39	-18.45	-22.87
536	1.92973	2.74	5.105263	536	3.76	-12.39	-18.45	-22.87
537	1.956757	2.768571	5.149123	537	3.76	-12.37	-18.43	-22.86
538	1.97027	2.754286	5.192982	538	3.76	-12.38	-18.43	-22.86
539	1.97027	2.754286	5.222222	539	3.76	-12.38	-18.44	-22.86
540	1.97027	2.768571	5.192982	540	3.76	-12.37	-18.44	-22.86
541	1.97027	2.711429	5.192982	541	3.76	-12.37	-18.42	-22.86
542	1.983784	2.697143	5.207602	542	3.75	-12.38	-18.43	-22.86
543	1.983784	2.725714	5.222222	543	3.75	-12.39	-18.44	-22.87
544	1.997297	2.768571	5.266082	544	3.75	-12.37	-18.44	-22.86

545	1.983784	2.74	5.251462	545	3.74	-12.38	-18.44	-22.86
546	1.983784	2.754286	5.149123	546	3.75	-12.38	-18.43	-22.86
547	1.997297	2.754286	5.178363	547	3.75	-12.38	-18.44	-22.86
548	1.997297	2.768571	5.295322	548	3.75	-12.37	-18.43	-22.85
549	2.037838	2.768571	5.236842	549	3.75	-12.37	-18.43	-22.85
550	2.010811	2.754286	5.222222	550	3.75	-12.37	-18.43	-22.85
551	1.983784	2.825714	5.207602	551	3.75	-12.37	-18.43	-22.85
552	2.010811	2.768571	5.207602	552	3.75	-12.37	-18.44	-22.85
553	2.024324	2.768571	5.236842	553	3.75	-12.36	-18.43	-22.85
554	2.010811	2.797143	5.236842	554	3.75	-12.36	-18.43	-22.85
555	2.037838	2.84	5.236842	555	3.74	-12.37	-18.44	-22.86
556	2.051351	2.882857	5.280702	556	3.75	-12.37	-18.44	-22.86
557	2.078378	2.868571	5.309942	557	3.76	-12.36	-18.43	-22.84
558	2.091892	2.825714	5.280702	558	3.76	-12.35	-18.42	-22.84
559	2.037838	2.854286	5.207602	559	3.76	-12.35	-18.41	-22.83
560	1.997297	2.825714	5.236842	560	3.76	-12.35	-18.42	-22.84
561	2.010811	2.782857	5.236842	561	3.75	-12.36	-18.43	-22.84
562	2.024324	2.825714	5.251462	562	3.75	-12.36	-18.43	-22.84
563	2.010811	2.84	5.207602	563	3.76	-12.35	-18.42	-22.84
564	2.037838	2.825714	5.207602	564	3.75	-12.35	-18.41	-22.84
565	2.037838	2.825714	5.222222	565	3.75	-12.36	-18.42	-22.84
566	2.024324	2.782857	5.251462	566	3.75	-12.36	-18.43	-22.84
567	2.037838	2.84	5.266082	567	3.75	-12.35	-18.42	-22.83
568	2.078378	2.84	5.280702	568	3.75	-12.35	-18.42	-22.84
569	2.091892	2.854286	5.280702	569	3.75	-12.34	-18.41	-22.83
570	2.064865	2.854286	5.251462	570	3.76	-12.35	-18.41	-22.83
571	2.024324	2.868571	5.163743	571	3.76	-12.35	-18.42	-22.84
572	2.037838	2.911429	5.222222	572	3.76	-12.34	-18.42	-22.83
573	2.037838	2.868571	5.251462	573	3.76	-12.33	-18.4	-22.82
574	2.064865	2.868571	5.295322	574	3.77	-12.34	-18.4	-22.82
575	2.105405	2.84	5.266082	575	3.77	-12.32	-18.4	-22.81
576	2.105405	2.911429	5.236842	576	3.77	-12.33	-18.41	-22.82
577	2.078378	2.882857	5.280702	577	3.76	-12.32	-18.4	-22.82
578	2.064865	2.868571	5.280702	578	3.76	-12.33	-18.41	-22.82
579	2.091892	2.882857	5.251462	579	3.76	-12.34	-18.41	-22.82
580	2.091892	2.882857	5.295322	580	3.76	-12.33	-18.41	-22.82
581	2.118919	2.811429	5.339181	581	3.76	-12.32	-18.4	-22.82
582	2.105405	2.882857	5.339181	582	3.76	-12.33	-18.41	-22.82
583	2.091892	2.882857	5.251462	583	3.76	-12.34	-18.42	-22.82
584	2.078378	2.868571	5.266082	584	3.76	-12.32	-18.41	-22.82
585	2.078378	2.897143	5.324561	585	3.76	-12.33	-18.41	-22.82
586	2.105405	2.882857	5.397661	586	3.76	-12.32	-18.4	-22.82
587	2.118919	2.882857	5.353801	587	3.77	-12.33	-18.41	-22.83
588	2.118919	2.925714	5.339181	588	3.77	-12.32	-18.41	-22.82
589	2.118919	2.954286	5.309942	589	3.77	-12.32	-18.4	-22.81

590	2.078378	2.911429	5.309942	590	3.77	-12.32	-18.4	-22.81
591	2.132432	2.925714	5.280702	591	3.78	-12.32	-18.4	-22.81
592	2.091892	2.882857	5.324561	592	3.77	-12.32	-18.41	-22.82
593	2.118919	2.925714	5.309942	593	3.77	-12.32	-18.4	-22.81
594	2.145946	2.94	5.339181	594	3.77	-12.32	-18.4	-22.81
595	2.132432	2.968571	5.339181	595	3.76	-12.32	-18.41	-22.81
596	2.145946	2.94	5.412281	596	3.76	-12.32	-18.41	-22.81
597	2.132432	2.911429	5.353801	597	3.76	-12.32	-18.41	-22.81
598	2.145946	2.94	5.383041	598	3.77	-12.31	-18.4	-22.81
599	2.159459	2.925714	5.353801	599	3.76	-12.32	-18.41	-22.81
600	2.172973	2.925714	5.368421	600	3.76	-12.32	-18.41	-22.82
601	2.145946	2.968571	5.44152	601	3.76	-12.32	-18.41	-22.82
602	2.145946	2.982857	5.383041	602	3.76	-12.31	-18.41	-22.81
603	2.172973	2.968571	5.295322	603	3.76	-12.31	-18.4	-22.81
604	2.172973	2.925714	5.295322	604	3.76	-12.32	-18.41	-22.82
605	2.186486	2.911429	5.412281	605	3.77	-12.32	-18.41	-22.81
606	2.118919	2.968571	5.44152	606	3.77	-12.3	-18.39	-22.8
607	2.132432	2.954286	5.397661	607	3.77	-12.3	-18.39	-22.8
608	2.172973	2.968571	5.397661	608	3.77	-12.31	-18.4	-22.81
609	2.186486	2.968571	5.383041	609	3.77	-12.31	-18.4	-22.8
610	2.186486	2.954286	5.383041	610	3.77	-12.29	-18.39	-22.8
611	2.172973	2.982857	5.368421	611	3.77	-12.29	-18.38	-22.8
612	2.2	2.925714	5.368421	612	3.77	-12.3	-18.39	-22.8
613	2.213514	2.954286	5.45614	613	3.77	-12.31	-18.4	-22.81
614	2.2	2.954286	5.44152	614	3.77	-12.3	-18.39	-22.8
615	2.213514	2.968571	5.412281	615	3.77	-12.29	-18.39	-22.8
616	2.2	2.954286	5.383041	616	3.78	-12.29	-18.39	-22.79
617	2.2	2.968571	5.383041	617	3.78	-12.29	-18.38	-22.79
618	2.240541	2.954286	5.44152	618	3.77	-12.29	-18.39	-22.8
619	2.240541	2.897143	5.45614	619	3.77	-12.29	-18.39	-22.8
620	2.213514	2.94	5.426901	620	3.77	-12.3	-18.39	-22.8
621	2.213514	2.997143	5.44152	621	3.77	-12.3	-18.39	-22.8
622	2.172973	2.997143	5.44152	622	3.77	-12.29	-18.39	-22.8
623	2.186486	2.997143	5.412281	623	3.77	-12.29	-18.39	-22.8
624	2.227027	3.025714	5.47076	624	3.76	-12.3	-18.39	-22.8
625	2.254054	3.011429	5.5	625	3.77	-12.3	-18.39	-22.8
626	2.2	2.968571	5.48538	626	3.77	-12.28	-18.38	-22.79
627	2.2	2.954286	5.44152	627	3.77	-12.29	-18.39	-22.8
628	2.267568	2.954286	5.44152	628	3.77	-12.3	-18.39	-22.81
629	2.240541	2.94	5.48538	629	3.76	-12.31	-18.41	-22.81
630	2.227027	3.011429	5.45614	630	3.78	-12.28	-18.38	-22.79
631	2.227027	3.04	5.45614	631	3.77	-12.29	-18.39	-22.8
632	2.240541	3.054286	5.397661	632	3.77	-12.3	-18.4	-22.8
633	2.213514	3.054286	5.426901	633	3.77	-12.3	-18.4	-22.8
634	2.213514	3.082857	5.44152	634	3.76	-12.29	-18.4	-22.79

635	2.2	3.025714	5.45614	635	3.77	-12.29	-18.38	-22.8
636	2.213514	3.011429	5.45614	636	3.77	-12.3	-18.39	-22.8
637	2.254054	3.025714	5.45614	637	3.77	-12.3	-18.4	-22.8
638	2.213514	3.054286	5.5	638	3.77	-12.29	-18.39	-22.8
639	2.2	3.04	5.51462	639	3.77	-12.28	-18.38	-22.79
640	2.254054	3.025714	5.54386	640	3.78	-12.29	-18.38	-22.79
641	2.254054	2.982857	5.51462	641	3.77	-12.29	-18.39	-22.79
642	2.240541	2.982857	5.52924	642	3.78	-12.27	-18.37	-22.78
643	2.267568	2.968571	5.54386	643	3.77	-12.28	-18.37	-22.79
644	2.267568	2.982857	5.5	644	3.77	-12.28	-18.39	-22.79
645	2.254054	2.997143	5.48538	645	3.77	-12.28	-18.39	-22.79
646	2.240541	3.011429	5.51462	646	3.77	-12.28	-18.39	-22.79
647	2.213514	3.011429	5.52924	647	3.77	-12.27	-18.38	-22.78
648	2.281081	3.068571	5.52924	648	3.77	-12.27	-18.38	-22.78
649	2.281081	3.082857	5.51462	649	3.77	-12.28	-18.38	-22.79
650	2.240541	3.04	5.48538	650	3.77	-12.28	-18.38	-22.79
651	2.254054	3.04	5.47076	651	3.78	-12.27	-18.38	-22.78
652	2.267568	3.068571	5.5	652	3.77	-12.27	-18.38	-22.78
653	2.254054	3.054286	5.48538	653	3.78	-12.27	-18.37	-22.78
654	2.240541	3.025714	5.54386	654	3.78	-12.28	-18.38	-22.79
655	2.281081	3.068571	5.51462	655	3.78	-12.27	-18.38	-22.78
656	2.281081	3.097143	5.54386	656	3.77	-12.27	-18.38	-22.78
657	2.240541	3.097143	5.5	657	3.77	-12.27	-18.38	-22.78
658	2.281081	3.068571	5.51462	658	3.77	-12.28	-18.38	-22.79
659	2.294595	3.025714	5.573099	659	3.77	-12.28	-18.38	-22.79
660	2.281081	3.04	5.55848	660	3.77	-12.27	-18.38	-22.78
661	2.294595	3.068571	5.573099	661	3.77	-12.26	-18.37	-22.78
662	2.321622	3.111429	5.52924	662	3.77	-12.27	-18.37	-22.78
663	2.281081	3.082857	5.47076	663	3.77	-12.27	-18.37	-22.78
664	2.294595	3.097143	5.5	664	3.77	-12.27	-18.38	-22.79
665	2.254054	3.097143	5.55848	665	3.77	-12.28	-18.38	-22.79
666	2.294595	3.082857	5.573099	666	3.77	-12.28	-18.39	-22.79
667	2.308108	3.04	5.55848	667	3.78	-12.28	-18.39	-22.79
668	2.281081	3.111429	5.573099	668	3.78	-12.26	-18.37	-22.78
669	2.281081	3.125714	5.573099	669	3.77	-12.27	-18.37	-22.79
670	2.294595	3.125714	5.573099	670	3.77	-12.28	-18.38	-22.79
671	2.308108	3.14	5.55848	671	3.78	-12.26	-18.37	-22.78
672	2.294595	3.125714	5.602339	672	3.78	-12.26	-18.37	-22.78
673	2.281081	3.097143	5.587719	673	3.78	-12.26	-18.37	-22.78
674	2.294595	3.054286	5.587719	674	3.77	-12.27	-18.37	-22.79
675	2.294595	3.054286	5.55848	675	3.77	-12.28	-18.38	-22.79
676	2.267568	3.082857	5.51462	676	3.78	-12.26	-18.37	-22.78
677	2.254054	3.111429	5.573099	677	3.77	-12.26	-18.37	-22.78
678	2.294595	3.068571	5.631579	678	3.77	-12.27	-18.37	-22.78
679	2.294595	3.054286	5.602339	679	3.78	-12.27	-18.37	-22.78

680	2.308108	3.025714	5.587719	680	3.78	-12.26	-18.37	-22.78
681	2.281081	3.04	5.573099	681	3.78	-12.25	-18.36	-22.77
682	2.308108	3.111429	5.573099	682	3.78	-12.26	-18.37	-22.78
683	2.308108	3.111429	5.51462	683	3.78	-12.27	-18.37	-22.78
684	2.308108	3.097143	5.52924	684	3.78	-12.25	-18.37	-22.78
685	2.294595	3.154286	5.51462	685	3.78	-12.26	-18.37	-22.78
686	2.321622	3.111429	5.54386	686	3.77	-12.26	-18.36	-22.78
687	2.308108	3.125714	5.573099	687	3.77	-12.27	-18.38	-22.78
688	2.308108	3.14	5.55848	688	3.77	-12.27	-18.38	-22.78
689	2.294595	3.097143	5.602339	689	3.78	-12.25	-18.36	-22.77
690	2.294595	3.097143	5.631579	690	3.77	-12.27	-18.37	-22.78
691	2.321622	3.068571	5.587719	691	3.78	-12.27	-18.37	-22.78
692	2.335135	3.082857	5.602339	692	3.78	-12.25	-18.36	-22.77
693	2.335135	3.125714	5.587719	693	3.77	-12.26	-18.36	-22.78
694	2.362162	3.082857	5.616959	694	3.77	-12.26	-18.36	-22.78
695	2.335135	3.082857	5.646199	695	3.77	-12.27	-18.37	-22.78
696	2.335135	3.097143	5.646199	696	3.77	-12.26	-18.37	-22.77
697	2.348649	3.168571	5.616959	697	3.77	-12.25	-18.36	-22.78
698	2.335135	3.111429	5.587719	698	3.78	-12.26	-18.36	-22.78
699	2.321622	3.111429	5.573099	699	3.77	-12.27	-18.37	-22.78
700	2.321622	3.111429	5.602339	700	3.77	-12.26	-18.38	-22.78
701	2.308108	3.082857	5.602339	701	3.77	-12.26	-18.37	-22.78
702	2.294595	3.068571	5.54386	702	3.77	-12.26	-18.36	-22.78
703	2.348649	3.068571	5.602339	703	3.77	-12.27	-18.37	-22.78
704	2.348649	3.111429	5.587719	704	3.77	-12.26	-18.37	-22.78
705	2.362162	3.111429	5.602339	705	3.77	-12.25	-18.37	-22.77
706	2.335135	3.068571	5.616959	706	3.77	-12.25	-18.37	-22.78
707	2.348649	3.097143	5.646199	707	3.78	-12.25	-18.37	-22.77
708	2.362162	3.125714	5.660819	708	3.78	-12.26	-18.37	-22.77
709	2.375676	3.168571	5.631579	709	3.77	-12.25	-18.37	-22.77
710	2.362162	3.154286	5.587719	710	3.78	-12.25	-18.36	-22.78
711	2.321622	3.182857	5.631579	711	3.77	-12.26	-18.37	-22.78
712	2.321622	3.097143	5.616959	712	3.77	-12.26	-18.37	-22.78
713	2.321622	3.111429	5.55848	713	3.77	-12.26	-18.37	-22.78
714	2.335135	3.068571	5.573099	714	3.77	-12.26	-18.36	-22.78
715	2.362162	3.097143	5.616959	715	3.78	-12.25	-18.36	-22.77
716	2.416216	3.125714	5.646199	716	3.78	-12.25	-18.37	-22.77
717	2.389189	3.082857	5.660819	717	3.77	-12.25	-18.36	-22.77
718	2.362162	3.025714	5.646199	718	3.78	-12.25	-18.36	-22.77
719	2.362162	3.082857	5.646199	719	3.78	-12.25	-18.36	-22.77
720	2.362162	3.111429	5.675439	720	3.78	-12.25	-18.36	-22.77
721	2.362162	3.14	5.675439	721	3.78	-12.25	-18.37	-22.77
722	2.375676	3.082857	5.660819	722	3.78	-12.24	-18.36	-22.76
723	2.362162	3.04	5.602339	723	3.77	-12.24	-18.35	-22.77
724	2.389189	3.097143	5.646199	724	3.78	-12.24	-18.35	-22.76

725	2.402703	3.111429	5.675439	725	3.78	-12.25	-18.36	-22.77
726	2.416216	3.068571	5.602339	726	3.78	-12.24	-18.35	-22.76
727	2.402703	3.097143	5.55848	727	3.77	-12.24	-18.35	-22.78
728	2.362162	3.097143	5.587719	728	3.79	-12.24	-18.35	-22.77
729	2.375676	3.097143	5.646199	729	3.8	-12.24	-18.35	-22.76
730	2.375676	3.154286	5.690058	730	3.79	-12.24	-18.35	-22.77
731	2.362162	3.154286	5.690058	731	3.79	-12.24	-18.34	-22.77
732	2.375676	3.111429	5.660819	732	3.78	-12.25	-18.36	-22.78
733	2.375676	3.14	5.690058	733	3.79	-12.25	-18.36	-22.77
734	2.362162	3.197143	5.646199	734	3.78	-12.24	-18.35	-22.77
735	2.375676	3.168571	5.587719	735	3.78	-12.24	-18.35	-22.77
736	2.416216	3.111429	5.587719	736	3.79	-12.25	-18.35	-22.77
737	2.402703	3.082857	5.660819	737	3.79	-12.24	-18.35	-22.76
738	2.389189	3.111429	5.675439	738	3.79	-12.23	-18.34	-22.76
739	2.348649	3.14	5.646199	739	3.79	-12.23	-18.34	-22.76
740	2.389189	3.154286	5.631579	740	3.78	-12.25	-18.36	-22.78
741	2.42973	3.154286	5.690058	741	3.78	-12.25	-18.37	-22.77
742	2.402703	3.211429	5.704678	742	3.78	-12.24	-18.37	-22.77
743	2.416216	3.182857	5.660819	743	3.78	-12.24	-18.37	-22.77
744	2.456757	3.197143	5.631579	744	3.78	-12.24	-18.37	-22.78
745	2.42973	3.197143	5.675439	745	3.78	-12.25	-18.37	-22.78
746	2.42973	3.254286	5.704678	746	3.78	-12.25	-18.38	-22.79
747	2.416216	3.24	5.675439	747	3.78	-12.25	-18.38	-22.79
748	2.402703	3.24	5.675439	748	3.78	-12.25	-18.38	-22.79
749	2.389189	3.24	5.690058	749	3.77	-12.26	-18.39	-22.8
750	2.321622	3.182857	5.675439	750	3.77	-12.26	-18.4	-22.8
751	2.362162	3.211429	5.660819	751	3.77	-12.25	-18.39	-22.8
752	2.389189	3.197143	5.690058	752	3.77	-12.25	-18.39	-22.79
753	2.362162	3.182857	5.675439	753	3.77	-12.26	-18.4	-22.8
754	2.375676	3.197143	5.646199	754	3.76	-12.27	-18.41	-22.81
755	2.416216	3.182857	5.631579	755	3.76	-12.27	-18.42	-22.81
756	2.402703	3.211429	5.631579	756	3.76	-12.26	-18.41	-22.81
757	2.362162	3.197143	5.660819	757	3.76	-12.27	-18.41	-22.81
758	2.375676	3.225714	5.675439	758	3.76	-12.27	-18.42	-22.82
759	2.402703	3.168571	5.631579	759	3.76	-12.27	-18.42	-22.82
760	2.416216	3.097143	5.616959	760	3.76	-12.27	-18.42	-22.82
761	2.375676	3.125714	5.587719	761	3.75	-12.27	-18.43	-22.82
762	2.402703	3.211429	5.660819	762	3.77	-12.26	-18.41	-22.82
763	2.402703	3.182857	5.690058	763	3.76	-12.27	-18.42	-22.83
764	2.42973	3.168571	5.704678	764	3.75	-12.28	-18.43	-22.84
765	2.416216	3.168571	5.690058	765	3.75	-12.28	-18.43	-22.83
766	2.389189	3.168571	5.675439	766	3.76	-12.27	-18.42	-22.83
767	2.42973	3.182857	5.704678	767	3.76	-12.27	-18.42	-22.83
768	2.42973	3.168571	5.690058	768	3.76	-12.27	-18.42	-22.83
769	2.42973	3.182857	5.690058	769	3.76	-12.28	-18.43	-22.84

770	2.42973	3.154286	5.704678	770	3.76	-12.27	-18.43	-22.83
771	2.416216	3.168571	5.690058	771	3.76	-12.27	-18.42	-22.83
772	2.389189	3.182857	5.631579	772	3.75	-12.28	-18.43	-22.84
773	2.402703	3.24	5.660819	773	3.75	-12.28	-18.43	-22.84
774	2.416216	3.197143	5.690058	774	3.75	-12.28	-18.43	-22.84
775	2.362162	3.182857	5.733918	775	3.75	-12.27	-18.42	-22.83
776	2.416216	3.197143	5.763158	776	3.75	-12.27	-18.41	-22.84
777	2.42973	3.111429	5.646199	777	3.75	-12.29	-18.43	-22.84
778	2.456757	3.14	5.602339	778	3.76	-12.27	-18.42	-22.83
779	2.456757	3.182857	5.719298	779	3.76	-12.26	-18.41	-22.82
780	2.416216	3.211429	5.763158	780	3.75	-12.27	-18.41	-22.83
781	2.456757	3.211429	5.704678	781	3.75	-12.28	-18.41	-22.84
782	2.416216	3.225714	5.675439	782	3.75	-12.28	-18.42	-22.84
783	2.402703	3.197143	5.704678	783	3.75	-12.27	-18.41	-22.83
784	2.416216	3.197143	5.704678	784	3.75	-12.27	-18.41	-22.83
785	2.416216	3.211429	5.719298	785	3.74	-12.28	-18.4	-22.84
786	2.416216	3.197143	5.733918	786	3.76	-12.28	-18.4	-22.83
787	2.456757	3.14	5.719298	787	3.75	-12.27	-18.4	-22.83
788	2.42973	3.154286	5.733918	788	3.76	-12.26	-18.4	-22.82
789	2.402703	3.154286	5.733918	789	3.75	-12.27	-18.4	-22.82
790	2.416216	3.14	5.690058	790	3.75	-12.27	-18.39	-22.82
791	2.375676	3.154286	5.719298	791	3.75	-12.27	-18.4	-22.83
792	2.416216	3.197143	5.690058	792	3.76	-12.26	-18.39	-22.81
793	2.402703	3.168571	5.704678	793	3.76	-12.26	-18.38	-22.82
794	2.443243	3.211429	5.675439	794	3.76	-12.26	-18.38	-22.82
795	2.416216	3.182857	5.646199	795	3.76	-12.27	-18.39	-22.82
796	2.443243	3.211429	5.690058	796	3.77	-12.26	-18.38	-22.81
797	2.456757	3.182857	5.690058	797	3.76	-12.26	-18.39	-22.82
798	2.443243	3.197143	5.704678	798	3.76	-12.26	-18.38	-22.82
799	2.42973	3.197143	5.763158	799	3.76	-12.27	-18.38	-22.82
800	2.443243	3.182857	5.763158	800	3.76	-12.27	-18.39	-22.82
801	2.456757	3.197143	5.733918	801	3.76	-12.27	-18.39	-22.81
802	2.42973	3.225714	5.660819	802	3.76	-12.26	-18.38	-22.81
803	2.456757	3.168571	5.631579	803	3.77	-12.25	-18.37	-22.81
804	2.456757	3.182857	5.675439	804	3.76	-12.26	-18.37	-22.81
805	2.456757	3.24	5.719298	805	3.76	-12.26	-18.38	-22.81
806	2.47027	3.297143	5.748538	806	3.77	-12.24	-18.36	-22.8
807	2.47027	3.182857	5.675439	807	3.76	-12.26	-18.37	-22.81
808	2.483784	3.24	5.748538	808	3.76	-12.27	-18.38	-22.81
809	2.443243	3.211429	5.733918	809	3.76	-12.26	-18.38	-22.81
810	2.402703	3.182857	5.777778	810	3.76	-12.25	-18.36	-22.8
811	2.42973	3.182857	5.719298	811	3.77	-12.24	-18.36	-22.79
812	2.443243	3.168571	5.777778	812	3.76	-12.25	-18.36	-22.8
813	2.456757	3.24	5.704678	813	3.76	-12.26	-18.37	-22.8
814	2.416216	3.24	5.763158	814	3.76	-12.25	-18.37	-22.8

815	2.42973	3.182857	5.733918	815	3.76	-12.25	-18.36	-22.8
816	2.456757	3.225714	5.733918	816	3.76	-12.25	-18.35	-22.8
817	2.456757	3.297143	5.763158	817	3.76	-12.26	-18.37	-22.81
818	2.42973	3.282857	5.748538	818	3.76	-12.25	-18.37	-22.81
819	2.42973	3.254286	5.719298	819	3.76	-12.25	-18.36	-22.81
820	2.416216	3.254286	5.719298	820	3.75	-12.26	-18.37	-22.81
821	2.483784	3.24	5.704678	821	3.75	-12.26	-18.38	-22.81
822	2.456757	3.24	5.748538	822	3.75	-12.26	-18.38	-22.8
823	2.443243	3.211429	5.777778	823	3.75	-12.26	-18.37	-22.81
824	2.42973	3.24	5.719298	824	3.75	-12.26	-18.37	-22.81
825	2.443243	3.225714	5.704678	825	3.75	-12.26	-18.37	-22.81
826	2.483784	3.24	5.748538	826	3.75	-12.26	-18.37	-22.81
827	2.510811	3.197143	5.733918	827	3.76	-12.25	-18.36	-22.8
828	2.483784	3.211429	5.763158	828	3.77	-12.24	-18.35	-22.8
829	2.510811	3.182857	5.719298	829	3.76	-12.25	-18.36	-22.8
830	2.47027	3.197143	5.719298	830	3.76	-12.25	-18.37	-22.8
831	2.443243	3.254286	5.733918	831	3.75	-12.25	-18.37	-22.8
832	2.47027	3.225714	5.704678	832	3.76	-12.25	-18.36	-22.8
833	2.483784	3.24	5.748538	833	3.77	-12.25	-18.35	-22.8
834	2.537838	3.24	5.792398	834	3.76	-12.26	-18.37	-22.81
835	2.564865	3.282857	5.748538	835	3.75	-12.26	-18.37	-22.81
836	2.483784	3.24	5.763158	836	3.75	-12.26	-18.37	-22.81
837	2.47027	3.197143	5.719298	837	3.76	-12.26	-18.37	-22.81
838	2.510811	3.197143	5.733918	838	3.76	-12.26	-18.37	-22.81
839	2.497297	3.24	5.748538	839	3.76	-12.25	-18.37	-22.8
840	2.47027	3.297143	5.821637	840	3.75	-12.25	-18.37	-22.81
841	2.483784	3.268571	5.763158	841	3.75	-12.25	-18.36	-22.81
842	2.483784	3.225714	5.763158	842	3.76	-12.26	-18.37	-22.81
843	2.456757	3.24	5.777778	843	3.75	-12.26	-18.38	-22.81
844	2.47027	3.24	5.763158	844	3.74	-12.26	-18.38	-22.82
845	2.524324	3.24	5.777778	845	3.74	-12.26	-18.37	-22.82
846	2.537838	3.225714	5.748538	846	3.75	-12.26	-18.36	-22.81
847	2.537838	3.24	5.763158	847	3.75	-12.26	-18.38	-22.81
848	2.497297	3.268571	5.748538	848	3.75	-12.25	-18.36	-22.8
849	2.456757	3.254286	5.719298	849	3.75	-12.25	-18.36	-22.81
850	2.443243	3.211429	5.763158	850	3.75	-12.26	-18.36	-22.81
851	2.47027	3.282857	5.763158	851	3.76	-12.26	-18.37	-22.81
852	2.47027	3.297143	5.777778	852	3.75	-12.26	-18.37	-22.81
853	2.47027	3.311429	5.792398	853	3.75	-12.26	-18.37	-22.81
854	2.510811	3.268571	5.777778	854	3.75	-12.26	-18.36	-22.81
855	2.510811	3.197143	5.792398	855	3.75	-12.27	-18.37	-22.81
856	2.497297	3.268571	5.792398	856	3.75	-12.26	-18.37	-22.81
857	2.510811	3.225714	5.792398	857	3.75	-12.26	-18.36	-22.81
858	2.483784	3.211429	5.763158	858	3.75	-12.27	-18.36	-22.82
859	2.483784	3.268571	5.777778	859	3.75	-12.26	-18.37	-22.81

860	2.47027	3.297143	5.748538	860	3.76	-12.25	-18.36	-22.8
861	2.483784	3.24	5.792398	861	3.76	-12.25	-18.35	-22.8
862	2.510811	3.24	5.821637	862	3.76	-12.25	-18.35	-22.8
863	2.497297	3.282857	5.821637	863	3.75	-12.26	-18.37	-22.81
864	2.483784	3.311429	5.792398	864	3.75	-12.25	-18.35	-22.8
865	2.47027	3.297143	5.807018	865	3.76	-12.25	-18.35	-22.8
866	2.483784	3.297143	5.719298	866	3.75	-12.26	-18.36	-22.81
867	2.47027	3.268571	5.748538	867	3.75	-12.26	-18.36	-22.8
868	2.483784	3.24	5.733918	868	3.74	-12.26	-18.37	-22.81
869	2.510811	3.211429	5.763158	869	3.75	-12.26	-18.36	-22.81
870	2.510811	3.197143	5.777778	870	3.75	-12.27	-18.36	-22.82
871	2.524324	3.268571	5.763158	871	3.75	-12.26	-18.37	-22.81
872	2.524324	3.297143	5.792398	872	3.75	-12.26	-18.36	-22.81
873	2.537838	3.254286	5.777778	873	3.76	-12.24	-18.35	-22.8
874	2.537838	3.24	5.792398	874	3.76	-12.25	-18.36	-22.8
875	2.510811	3.297143	5.792398	875	3.76	-12.25	-18.36	-22.8
876	2.510811	3.34	5.748538	876	3.76	-12.25	-18.36	-22.8
877	2.564865	3.311429	5.719298	877	3.76	-12.24	-18.35	-22.8
878	2.551351	3.282857	5.719298	878	3.76	-12.25	-18.34	-22.81
879	2.551351	3.297143	5.777778	879	3.76	-12.25	-18.35	-22.8
880	2.510811	3.354286	5.836257	880	3.76	-12.25	-18.35	-22.8
881	2.483784	3.34	5.792398	881	3.76	-12.24	-18.34	-22.8
882	2.497297	3.311429	5.792398	882	3.75	-12.25	-18.35	-22.81
883	2.524324	3.254286	5.777778	883	3.76	-12.25	-18.35	-22.81
884	2.510811	3.24	5.777778	884	3.76	-12.25	-18.34	-22.8
885	2.551351	3.297143	5.763158	885	3.76	-12.25	-18.35	-22.81
886	2.510811	3.24	5.792398	886	3.76	-12.25	-18.35	-22.81
887	2.47027	3.268571	5.792398	887	3.76	-12.25	-18.35	-22.81
888	2.497297	3.24	5.792398	888	3.75	-12.25	-18.36	-22.81
889	2.510811	3.182857	5.748538	889	3.75	-12.25	-18.35	-22.81
890	2.510811	3.24	5.748538	890	3.76	-12.24	-18.34	-22.8
891	2.510811	3.254286	5.763158	891	3.76	-12.24	-18.33	-22.8
892	2.537838	3.282857	5.850877	892	3.76	-12.25	-18.35	-22.81
893	2.510811	3.297143	5.850877	893	3.76	-12.24	-18.35	-22.8
894	2.47027	3.282857	5.821637	894	3.76	-12.24	-18.34	-22.8
895	2.497297	3.311429	5.777778	895	3.75	-12.25	-18.34	-22.81
896	2.497297	3.297143	5.748538	896	3.75	-12.25	-18.35	-22.81
897	2.483784	3.268571	5.733918	897	3.75	-12.25	-18.35	-22.81
898	2.47027	3.254286	5.763158	898	3.75	-12.24	-18.35	-22.8
899	2.524324	3.268571	5.719298	899	3.75	-12.24	-18.34	-22.8
900	2.510811	3.297143	5.748538	900	3.75	-12.25	-18.34	-22.81
901	2.510811	3.268571	5.777778	901	3.76	-12.25	-18.34	-22.8
902	2.510811	3.254286	5.792398	902	3.75	-12.25	-18.35	-22.81
903	2.510811	3.297143	5.792398	903	3.75	-12.24	-18.35	-22.8
904	2.483784	3.282857	5.865497	904	3.75	-12.24	-18.35	-22.8

905	2.537838	3.268571	5.836257	905	3.75	-12.25	-18.35	-22.8
906	2.537838	3.297143	5.792398	906	3.75	-12.25	-18.35	-22.81
907	2.524324	3.34	5.777778	907	3.75	-12.25	-18.36	-22.81
908	2.524324	3.34	5.777778	908	3.75	-12.24	-18.34	-22.8
909	2.524324	3.325714	5.821637	909	3.75	-12.25	-18.34	-22.81
910	2.524324	3.268571	5.792398	910	3.75	-12.26	-18.35	-22.82
911	2.551351	3.24	5.777778	911	3.75	-12.25	-18.35	-22.81
912	2.537838	3.24	5.792398	912	3.75	-12.25	-18.35	-22.81
913	2.537838	3.254286	5.821637	913	3.75	-12.25	-18.35	-22.82
914	2.537838	3.268571	5.821637	914	3.75	-12.25	-18.35	-22.82
915	2.537838	3.297143	5.792398	915	3.76	-12.25	-18.36	-22.81
916	2.551351	3.311429	5.807018	916	3.76	-12.24	-18.35	-22.81
917	2.564865	3.325714	5.880117	917	3.76	-12.24	-18.35	-22.82
918	2.537838	3.282857	5.880117	918	3.76	-12.24	-18.35	-22.82
919	2.524324	3.268571	5.880117	919	3.76	-12.25	-18.36	-22.82
920	2.564865	3.297143	5.865497	920	3.76	-12.25	-18.37	-22.83
921	2.564865	3.282857	5.880117	921	3.76	-12.24	-18.37	-22.83
922	2.551351	3.297143	5.821637	922	3.75	-12.25	-18.37	-22.83
923	2.551351	3.282857	5.821637	923	3.75	-12.26	-18.38	-22.84
924	2.578378	3.282857	5.777778	924	3.75	-12.25	-18.38	-22.83
925	2.537838	3.254286	5.850877	925	3.75	-12.25	-18.38	-22.84
926	2.564865	3.297143	5.836257	926	3.74	-12.27	-18.4	-22.85
927	2.618919	3.325714	5.821637	927	3.75	-12.27	-18.4	-22.85
928	2.618919	3.311429	5.865497	928	3.74	-12.26	-18.4	-22.85
929	2.591892	3.268571	5.909357	929	3.74	-12.26	-18.39	-22.84
930	2.564865	3.268571	5.880117	930	3.74	-12.27	-18.39	-22.85
931	2.564865	3.268571	5.821637	931	3.74	-12.27	-18.39	-22.85
932	2.551351	3.297143	5.807018	932	3.74	-12.27	-18.4	-22.85
933	2.551351	3.282857	5.865497	933	3.74	-12.27	-18.4	-22.85
934	2.564865	3.354286	5.880117	934	3.75	-12.25	-18.38	-22.84
935	2.551351	3.325714	5.850877	935	3.75	-12.26	-18.38	-22.85
936	2.524324	3.297143	5.836257	936	3.75	-12.26	-18.38	-22.85
937	2.524324	3.254286	5.836257	937	3.75	-12.26	-18.39	-22.84
938	2.578378	3.282857	5.821637	938	3.75	-12.25	-18.37	-22.84
939	2.578378	3.297143	5.777778	939	3.75	-12.26	-18.37	-22.85
940	2.564865	3.268571	5.777778	940	3.75	-12.26	-18.38	-22.84
941	2.537838	3.297143	5.821637	941	3.75	-12.26	-18.38	-22.84
942	2.551351	3.311429	5.836257	942	3.75	-12.26	-18.37	-22.84
943	2.578378	3.325714	5.850877	943	3.74	-12.27	-18.37	-22.85
944	2.564865	3.354286	5.880117	944	3.73	-12.28	-18.39	-22.86
945	2.551351	3.325714	5.836257	945	3.73	-12.27	-18.39	-22.86
946	2.551351	3.268571	5.821637	946	3.74	-12.26	-18.38	-22.84
947	2.551351	3.311429	5.821637	947	3.75	-12.26	-18.38	-22.85
948	2.564865	3.282857	5.821637	948	3.75	-12.26	-18.38	-22.85
949	2.578378	3.268571	5.807018	949	3.75	-12.27	-18.38	-22.85

950	2.578378	3.297143	5.807018	950	3.74	-12.27	-18.39	-22.86
951	2.551351	3.268571	5.777778	951	3.74	-12.27	-18.38	-22.86
952	2.510811	3.311429	5.821637	952	3.74	-12.27	-18.39	-22.86
953	2.524324	3.325714	5.763158	953	3.74	-12.27	-18.38	-22.85
954	2.537838	3.282857	5.792398	954	3.74	-12.26	-18.38	-22.85
955	2.537838	3.24	5.850877	955	3.74	-12.26	-18.38	-22.85
956	2.537838	3.254286	5.850877	956	3.74	-12.27	-18.38	-22.85
957	2.591892	3.24	5.836257	957	3.73	-12.28	-18.39	-22.86
958	2.578378	3.254286	5.894737	958	3.73	-12.27	-18.39	-22.86
959	2.537838	3.297143	5.850877	959	3.74	-12.26	-18.38	-22.86
960	2.564865	3.297143	5.850877	960	3.73	-12.27	-18.38	-22.86
961	2.578378	3.211429	5.836257	961	3.74	-12.27	-18.38	-22.85
962	2.578378	3.311429	5.807018	962	3.73	-12.27	-18.37	-22.85
963	2.605405	3.325714	5.880117	963	3.74	-12.26	-18.37	-22.84
964	2.578378	3.282857	5.894737	964	3.74	-12.27	-18.37	-22.85
965	2.578378	3.325714	5.850877	965	3.73	-12.28	-18.38	-22.85
966	2.564865	3.354286	5.836257	966	3.73	-12.27	-18.38	-22.85
967	2.578378	3.311429	5.836257	967	3.73	-12.27	-18.37	-22.85
968	2.578378	3.311429	5.821637	968	3.74	-12.26	-18.37	-22.84
969	2.605405	3.325714	5.821637	969	3.74	-12.27	-18.37	-22.84
970	2.632432	3.311429	5.865497	970	3.73	-12.27	-18.38	-22.85
971	2.605405	3.311429	5.836257	971	3.73	-12.26	-18.38	-22.85
972	2.618919	3.311429	5.821637	972	3.73	-12.27	-18.37	-22.85
973	2.632432	3.311429	5.821637	973	3.73	-12.28	-18.38	-22.86
974	2.605405	3.311429	5.836257	974	3.73	-12.27	-18.38	-22.86
975	2.578378	3.268571	5.865497	975	3.73	-12.26	-18.36	-22.85
976	2.564865	3.297143	5.894737	976	3.74	-12.27	-18.37	-22.85
977	2.551351	3.268571	5.894737	977	3.73	-12.28	-18.39	-22.86
978	2.591892	3.311429	5.894737	978	3.72	-12.28	-18.39	-22.86
979	2.591892	3.354286	5.894737	979	3.73	-12.27	-18.37	-22.86
980	2.578378	3.354286	5.880117	980	3.73	-12.28	-18.38	-22.86
981	2.591892	3.34	5.880117	981	3.73	-12.28	-18.39	-22.86
982	2.591892	3.311429	5.865497	982	3.72	-12.28	-18.38	-22.86
983	2.591892	3.297143	5.865497	983	3.72	-12.27	-18.38	-22.86
984	2.605405	3.311429	5.821637	984	3.72	-12.28	-18.39	-22.87
985	2.632432	3.297143	5.821637	985	3.73	-12.28	-18.38	-22.87
986	2.632432	3.325714	5.894737	986	3.74	-12.26	-18.37	-22.86
987	2.618919	3.354286	5.850877	987	3.75	-12.26	-18.37	-22.86
988	2.591892	3.325714	5.807018	988	3.74	-12.27	-18.38	-22.87
989	2.564865	3.311429	5.821637	989	3.75	-12.27	-18.38	-22.87
990	2.564865	3.311429	5.821637	990	3.75	-12.26	-18.38	-22.88

Control_exp_7

Experiment type: Control experiment. This experiment consisted of just calcium perchlorate, weighing 76.44 g. There was not a humidity buffer inside the chamber. Chiller was set to -38°C.

Temperature around the sample was controlled by the chiller.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= humidity buffer 3= atmosphere 4= sample

Mass		RH					T				
Min.	Mass	Min.	Ch02	Ch03	Ch04	Min.	Ch01	Ch02	Ch03	Ch04	
0	110.6	0	0.083784	2.317143	3.701754	0	8.32	-16.29	-17.07	-30.56	
1	114.62	1	0.691892	3.474286	3.643275	1	-5.79	-17.1	-17.64	-30.51	
3	112.89	2	1.124324	4.717143	3.847953	2	-13.49	-19.81	-22.7	-32.2	
5	112.28	3	1.340541	5.388571	4.096491	3	-16.63	-19.22	-25.29	-33.02	
7	112.28	4	1.786486	5.702857	4.096491	4	-15.54	-18.95	-25.01	-31.39	
9	112.15	5	2.435135	5.945714	3.921053	5	-15.17	-18.36	-24.92	-30.77	
11	112	6	3.056757	5.902857	3.657895	6	-14.7	-17.86	-24.9	-30.58	
13	111.89	7	3.637838	5.545714	3.336257	7	-14.45	-17.45	-24.42	-30.36	
15	111.95	8	4.02973	5.117143	2.94152	8	-14.54	-17.29	-23.5	-30.06	
17	111.95	9	4.124324	4.902857	2.561404	9	-12.86	-17.29	-22.81	-29.82	
19	111.9	10	3.989189	4.631429	2.298246	10	-11.18	-17.34	-22.42	-29.61	
21	111.82	11	3.718919	4.202857	2.195906	11	-10.17	-17.41	-22.26	-29.42	
23	111.78	12	3.327027	3.731429	2.181287	12	-9.91	-17.48	-22.17	-29.26	
25	111.71	13	2.921622	3.26	2.166667	13	-10.45	-17.56	-22.17	-29.22	
27	111.73	14	2.597297	2.917143	2.239766	14	-11.93	-17.64	-22.49	-29.32	
29	111.69	15	2.367568	2.645714	2.283626	15	-12.03	-17.67	-22.69	-29.3	
31	111.72	16	2.205405	2.388571	2.181287	16	-12.09	-17.73	-22.81	-29.28	
33	111.66	17	2.151351	2.174286	2.137427	17	-12.13	-17.8	-22.89	-29.26	
35	111.67	18	2.164865	2.145714	2.093567	18	-12.12	-17.85	-22.94	-29.24	
37	111.64	19	2.097297	2.145714	2.064327	19	-12.14	-17.92	-22.99	-29.23	
39	111.63	20	2.124324	2.174286	1.991228	20	-12.18	-17.97	-23.01	-29.22	
41	111.67	21	2.164865	2.074286	1.888889	21	-12.23	-18.03	-23.04	-29.22	
43	111.7	22	2.218919	2.017143	1.78655	22	-12.22	-18.07	-23.05	-29.2	
45	111.65	23	2.272973	2.045714	1.71345	23	-12.23	-18.11	-23.05	-29.19	
47	111.67	24	2.327027	2.017143	1.654971	24	-12.27	-18.15	-23.05	-29.17	
49	111.62	25	2.354054	2.102857	1.523392	25	-12.3	-18.19	-23.06	-29.16	
51	111.6	26	2.435135	2.045714	1.508772	26	-12.29	-18.22	-23.06	-29.15	
53	111.63	27	2.502703	2.031429	1.479532	27	-12.32	-18.25	-23.05	-29.13	
55	111.6	28	2.57027	2.017143	1.421053	28	-12.36	-18.28	-23.05	-29.13	
57	111.63	29	2.664865	2.017143	1.391813	29	-12.35	-18.31	-23.05	-29.11	
59	111.59	30	2.678378	2.102857	1.274854	30	-12.36	-18.33	-23.05	-29.1	

61	111.61	31	2.745946	2.131429	1.143275	31	-12.37	-18.36	-23.04	-29.09
63	111.61	32	2.827027	2.174286	1.099415	32	-12.41	-18.38	-23.05	-29.08
65	111.61	33	2.881081	2.217143	0.982456	33	-12.39	-18.4	-23.05	-29.07
67	111.6	34	2.908108	2.274286	0.938596	34	-12.41	-18.42	-23.04	-29.06
69	111.59	35	2.975676	2.288571	0.880117	35	-12.44	-18.43	-23.03	-29.05
71	111.58	36	3.043243	2.245714	0.777778	36	-12.46	-18.45	-23.04	-29.05
73	111.58	37	3.097297	2.288571	0.777778	37	-12.42	-18.46	-23.03	-29.03
75	111.59	38	3.178378	2.288571	0.690058	38	-12.44	-18.47	-23.02	-29.02
77	111.57	39	3.259459	2.302857	0.616959	39	-12.47	-18.49	-23.03	-29.02
79	111.59	40	3.259459	2.374286	0.48538	40	-12.47	-18.5	-23.03	-29.01
81	111.56	41	3.327027	2.431429	0.397661	41	-12.45	-18.5	-23.02	-28.99
83	111.58	42	3.354054	2.431429	0.339181	42	-12.46	-18.51	-23.02	-28.98
85	111.56	43	3.421622	2.445714	0.280702	43	-12.5	-18.52	-23.02	-28.98
87	111.55	44	3.475676	2.517143	0.222222	44	-12.49	-18.53	-23.02	-28.97
89	111.57	45	3.52973	2.574286	0.134503	45	-12.49	-18.53	-23.02	-28.96
91	111.53	46	3.543243	2.631429	0.061404	46	-12.47	-18.53	-23.01	-28.95
93	111.56	47	3.57027	2.717143	0.002924	47	-12.48	-18.52	-22.99	-28.93
95	111.53	48	3.610811	2.788571	0.070175	48	-12.51	-18.52	-22.99	-28.92
97	111.55	49	3.637838	2.874286	0.114035	49	-12.47	-18.52	-22.99	-28.91
99	111.52	50	3.664865	2.902857	0.128655	50	-12.47	-18.52	-22.98	-28.9
101	111.53	51	3.691892	2.917143	0.216374	51	-12.52	-18.53	-22.99	-28.9
103	111.56	52	3.718919	2.96	0.318713	52	-12.49	-18.53	-22.98	-28.89
105	111.54	53	3.759459	2.931429	0.421053	53	-12.48	-18.52	-22.97	-28.88
107	111.57	54	3.786486	2.974286	0.464912	54	-12.5	-18.52	-22.98	-28.87
109	111.54	55	3.854054	3.045714	0.494152	55	-12.52	-18.52	-22.98	-28.86
111	111.57	56	3.894595	3.045714	0.523392	56	-12.48	-18.51	-22.97	-28.85
113	111.57	57	3.921622	3.102857	0.625731	57	-12.48	-18.5	-22.97	-28.84
115	111.57	58	3.921622	3.16	0.669591	58	-12.5	-18.5	-22.97	-28.83
117	111.57	59	3.908108	3.217143	0.654971	59	-12.52	-18.5	-22.96	-28.82
119	111.57	60	3.962162	3.202857	0.654971	60	-12.46	-18.48	-22.94	-28.79
121	111.58	61	4.016216	3.317143	0.74269	61	-12.46	-18.47	-22.94	-28.79
123	111.58	62	4.043243	3.402857	0.815789	62	-12.48	-18.47	-22.93	-28.78
125	111.64	63	4.043243	3.388571	0.903509	63	-12.48	-18.46	-22.93	-28.77
127	111.55	64	4.097297	3.488571	0.961988	64	-12.47	-18.45	-22.92	-28.76
129	111.55	65	4.151351	3.502857	1.049708	65	-12.46	-18.45	-22.92	-28.75
131	111.58	66	4.191892	3.531429	1.108187	66	-12.46	-18.44	-22.91	-28.74
133	111.56	67	4.245946	3.502857	1.108187	67	-12.48	-18.43	-22.91	-28.73
135	111.58	68	4.286486	3.545714	1.137427	68	-12.47	-18.42	-22.9	-28.72
137	111.58	69	4.272973	3.602857	1.210526	69	-12.45	-18.41	-22.89	-28.71
139	111.55	70	4.3	3.66	1.225146	70	-12.46	-18.4	-22.88	-28.7
141	111.56	71	4.286486	3.66	1.239766	71	-12.49	-18.39	-22.88	-28.69
143	111.55	72	4.286486	3.631429	1.312865	72	-12.44	-18.38	-22.87	-28.67
145	111.57	73	4.367568	3.731429	1.327485	73	-12.41	-18.35	-22.85	-28.65
147	111.55	74	4.381081	3.802857	1.400585	74	-12.43	-18.35	-22.85	-28.64
149	111.6	75	4.381081	3.831429	1.400585	75	-12.46	-18.35	-22.86	-28.65

151	111.59	76	4.421622	3.788571	1.429825	76	-12.45	-18.33	-22.86	-28.64
153	111.59	77	4.435135	3.831429	1.488304	77	-12.42	-18.32	-22.84	-28.62
155	111.59	78	4.502703	3.902857	1.576023	78	-12.41	-18.3	-22.83	-28.61
157	111.6	79	4.52973	3.917143	1.663743	79	-12.43	-18.3	-22.84	-28.61
159	111.59	80	4.57027	3.917143	1.649123	80	-12.43	-18.29	-22.83	-28.59
161	111.56	81	4.516216	4.002857	1.751462	81	-12.4	-18.27	-22.83	-28.58
163	111.58	82	4.52973	4.045714	1.824561	82	-12.4	-18.26	-22.82	-28.57
165	111.55	83	4.583784	4.088571	1.809942	83	-12.41	-18.25	-22.81	-28.56
167	111.58	84	4.624324	4.117143	1.868421	84	-12.43	-18.24	-22.81	-28.55
169	111.56	85	4.57027	4.174286	1.897661	85	-12.39	-18.23	-22.81	-28.55
171	111.58	86	4.624324	4.202857	1.912281	86	-12.38	-18.21	-22.79	-28.53
173	111.56	87	4.691892	4.245714	1.897661	87	-12.42	-18.21	-22.79	-28.53
175	111.59	88	4.678378	4.202857	1.897661	88	-12.38	-18.19	-22.79	-28.52
177	111.56	89	4.745946	4.26	1.926901	89	-12.38	-18.18	-22.79	-28.51
179	111.59	90	4.813514	4.36	1.95614	90	-12.4	-18.17	-22.77	-28.5
181	111.59	91	4.827027	4.302857	1.98538	91	-12.39	-18.15	-22.77	-28.49
183	111.56	92	4.813514	4.274286	2.02924	92	-12.36	-18.14	-22.77	-28.48
185	111.59	93	4.854054	4.36	2.087719	93	-12.37	-18.13	-22.76	-28.47
187	111.6	94	4.881081	4.431429	2.116959	94	-12.4	-18.12	-22.76	-28.47
189	111.56	95	4.894595	4.374286	2.146199	95	-12.35	-18.11	-22.76	-28.46
191	111.6	96	4.935135	4.417143	2.116959	96	-12.36	-18.1	-22.75	-28.45
193	111.59	97	5.002703	4.417143	2.190058	97	-12.37	-18.08	-22.74	-28.44
195	111.57	98	5.002703	4.417143	2.263158	98	-12.36	-18.07	-22.74	-28.43
197	111.59	99	5.002703	4.431429	2.292398	99	-12.37	-18.06	-22.75	-28.43
199	111.57	100	4.975676	4.474286	2.365497	100	-12.34	-18.04	-22.73	-28.41
201	111.61	101	5.002703	4.46	2.409357	101	-12.33	-18.03	-22.72	-28.4
203	111.58	102	4.989189	4.474286	2.438596	102	-12.33	-18.01	-22.71	-28.39
205	111.61	103	5.02973	4.474286	2.423977	103	-12.34	-18	-22.71	-28.38
207	111.58	104	5.056757	4.474286	2.438596	104	-12.35	-17.98	-22.7	-28.37
209	111.62	105	5.002703	4.474286	2.540936	105	-12.32	-17.97	-22.7	-28.36
211	111.6	106	5.043243	4.502857	2.584795	106	-12.31	-17.96	-22.7	-28.35
213	111.63	107	5.056757	4.588571	2.584795	107	-12.34	-17.95	-22.69	-28.34
215	111.6	108	5.083784	4.631429	2.672515	108	-12.35	-17.95	-22.69	-28.34
217	111.6	109	5.083784	4.645714	2.599415	109	-12.31	-17.93	-22.69	-28.33
219	111.63	110	5.137838	4.617143	2.570175	110	-12.31	-17.91	-22.67	-28.32
221	111.61	111	5.164865	4.588571	2.643275	111	-12.33	-17.9	-22.67	-28.31
223	111.61	112	5.178378	4.631429	2.614035	112	-12.3	-17.88	-22.66	-28.3
225	111.64	113	5.178378	4.745714	2.628655	113	-12.28	-17.87	-22.65	-28.29
227	111.61	114	5.191892	4.702857	2.716374	114	-12.31	-17.86	-22.65	-28.29
229	111.63	115	5.205405	4.702857	2.730994	115	-12.31	-17.85	-22.65	-28.28
231	111.6	116	5.205405	4.731429	2.716374	116	-12.29	-17.83	-22.65	-28.27
233	111.62	117	5.205405	4.731429	2.774854	117	-12.27	-17.82	-22.64	-28.26
235	111.6	118	5.245946	4.76	2.687135	118	-12.28	-17.81	-22.63	-28.26
237	111.64	119	5.218919	4.745714	2.730994	119	-12.3	-17.8	-22.63	-28.25
239	111.6	120	5.232432	4.76	2.818713	120	-12.29	-17.79	-22.63	-28.25

241	111.64	121	5.245946	4.774286	2.833333	121	-12.24	-17.76	-22.61	-28.23
243	111.6	122	5.245946	4.802857	2.804094	122	-12.27	-17.75	-22.6	-28.22
245	111.64	123	5.286486	4.817143	2.774854	123	-12.27	-17.74	-22.61	-28.21
247	111.63	124	5.3	4.731429	2.862573	124	-12.26	-17.73	-22.61	-28.21
249	111.67	125	5.367568	4.702857	2.862573	125	-12.23	-17.71	-22.6	-28.19
251	111.64	126	5.3	4.76	2.906433	126	-12.25	-17.7	-22.6	-28.19
253	111.62	127	5.354054	4.788571	2.921053	127	-12.26	-17.69	-22.6	-28.18
255	111.65	128	5.354054	4.788571	2.891813	128	-12.25	-17.68	-22.6	-28.17
257	111.62	129	5.327027	4.774286	2.935673	129	-12.23	-17.66	-22.59	-28.16
259	111.65	130	5.313514	4.817143	2.862573	130	-12.22	-17.65	-22.58	-28.16
261	111.62	131	5.354054	4.86	2.862573	131	-12.25	-17.65	-22.58	-28.16
263	111.65	132	5.381081	4.86	2.950292	132	-12.24	-17.63	-22.58	-28.15
265	111.64	133	5.448649	4.845714	2.979532	133	-12.22	-17.62	-22.58	-28.14
267	111.67	134	5.502703	4.917143	3.067251	134	-12.21	-17.6	-22.56	-28.13
269	111.64	135	5.516216	4.96	3.052632	135	-12.23	-17.59	-22.56	-28.12
271	111.67	136	5.543243	4.945714	3.081871	136	-12.22	-17.58	-22.56	-28.12
273	111.68	137	5.556757	4.945714	3.052632	137	-12.19	-17.56	-22.54	-28.11
275	111.67	138	5.543243	4.902857	3.067251	138	-12.21	-17.55	-22.54	-28.1
277	111.64	139	5.57027	4.96	3.096491	139	-12.23	-17.55	-22.55	-28.1
279	111.64	140	5.57027	4.988571	3.154971	140	-12.19	-17.54	-22.55	-28.09
281	111.65	141	5.57027	4.96	3.125731	141	-12.17	-17.52	-22.53	-28.08
283	111.68	142	5.624324	5.002857	3.154971	142	-12.18	-17.5	-22.52	-28.07
285	111.69	143	5.597297	5.017143	3.22807	143	-12.21	-17.49	-22.52	-28.07
287	111.69	144	5.597297	4.988571	3.19883	144	-12.17	-17.48	-22.52	-28.05
289	111.67	145	5.610811	5.017143	3.25731	145	-12.15	-17.46	-22.51	-28.04
291	111.69	146	5.664865	5.002857	3.21345	146	-12.16	-17.45	-22.51	-28.04
293	111.67	147	5.651351	5.031429	3.21345	147	-12.2	-17.45	-22.52	-28.04
295	111.72	148	5.664865	5.031429	3.25731	148	-12.16	-17.43	-22.51	-28.03
297	111.7	149	5.678378	5.06	3.21345	149	-12.15	-17.43	-22.51	-28.03
299	111.68	150	5.691892	5.031429	3.21345	150	-12.17	-17.42	-22.51	-28.03
301	111.7	151	5.705405	5.06	3.19883	151	-12.17	-17.4	-22.5	-28.01
303	111.68	152	5.691892	5.088571	3.30117	152	-12.15	-17.4	-22.5	-28.01
305	111.72	153	5.691892	5.088571	3.403509	153	-12.13	-17.37	-22.48	-27.99
307	111.68	154	5.664865	5.088571	3.374269	154	-12.13	-17.36	-22.48	-27.99
309	111.72	155	5.664865	5.145714	3.315789	155	-12.15	-17.35	-22.48	-27.98
311	111.72	156	5.678378	5.217143	3.388889	156	-12.14	-17.34	-22.47	-27.98
313	111.7	157	5.732432	5.217143	3.388889	157	-12.13	-17.34	-22.48	-27.98
315	111.73	158	5.691892	5.26	3.388889	158	-12.13	-17.32	-22.47	-27.97
317	111.7	159	5.678378	5.231429	3.432749	159	-12.15	-17.31	-22.46	-27.96
319	111.73	160	5.718919	5.131429	3.418129	160	-12.13	-17.3	-22.47	-27.96
321	111.71	161	5.745946	5.188571	3.388889	161	-12.1	-17.28	-22.46	-27.95
323	111.74	162	5.705405	5.202857	3.520468	162	-12.09	-17.26	-22.44	-27.93
325	111.71	163	5.718919	5.217143	3.520468	163	-12.11	-17.26	-22.45	-27.93
327	111.74	164	5.732432	5.217143	3.447368	164	-12.11	-17.25	-22.44	-27.92
329	111.72	165	5.8	5.231429	3.447368	165	-12.1	-17.24	-22.44	-27.92

331	111.75	166	5.854054	5.217143	3.418129	166	-12.07	-17.22	-22.43	-27.9
333	111.72	167	5.840541	5.245714	3.447368	167	-12.08	-17.21	-22.43	-27.91
335	111.75	168	5.759459	5.288571	3.476608	168	-12.09	-17.2	-22.43	-27.9
337	111.75	169	5.786486	5.317143	3.447368	169	-12.1	-17.19	-22.43	-27.89
339	111.76	170	5.786486	5.217143	3.403509	170	-12.08	-17.18	-22.43	-27.89
341	111.75	171	5.772973	5.217143	3.461988	171	-12.07	-17.17	-22.43	-27.88
343	111.73	172	5.813514	5.231429	3.491228	172	-12.07	-17.16	-22.43	-27.88
345	111.76	173	5.8	5.26	3.505848	173	-12.1	-17.15	-22.42	-27.88
347	111.73	174	5.813514	5.26	3.476608	174	-12.07	-17.14	-22.42	-27.87
349	111.77	175	5.854054	5.245714	3.491228	175	-12.06	-17.12	-22.41	-27.86
351	111.75	176	5.813514	5.274286	3.564327	176	-12.09	-17.12	-22.41	-27.86
353	111.78	177	5.827027	5.317143	3.535088	177	-12.07	-17.1	-22.41	-27.85
355	111.78	178	5.854054	5.245714	3.535088	178	-12.04	-17.09	-22.4	-27.84
357	111.75	179	5.867568	5.26	3.461988	179	-12.04	-17.07	-22.4	-27.83
359	111.78	180	5.894595	5.217143	3.476608	180	-12.06	-17.07	-22.4	-27.83
361	111.75	181	5.867568	5.288571	3.520468	181	-12.06	-17.06	-22.39	-27.82
363	111.78	182	5.854054	5.288571	3.520468	182	-12.05	-17.05	-22.39	-27.82
365	111.75	183	5.867568	5.302857	3.535088	183	-12.04	-17.04	-22.39	-27.81
367	111.78	184	5.894595	5.374286	3.564327	184	-12.03	-17.03	-22.39	-27.81
369	111.75	185	5.948649	5.317143	3.505848	185	-12.07	-17.03	-22.38	-27.81
371	111.81	186	5.948649	5.331429	3.491228	186	-12.05	-17.01	-22.38	-27.8
373	111.75	187	5.962162	5.402857	3.549708	187	-12.02	-17	-22.37	-27.8
375	111.79	188	5.935135	5.46	3.578947	188	-12.02	-16.99	-22.36	-27.78
377	111.76	189	5.935135	5.402857	3.564327	189	-12.05	-16.98	-22.36	-27.78
379	111.79	190	5.962162	5.417143	3.666667	190	-12.01	-16.96	-22.36	-27.77
381	111.75	191	5.975676	5.431429	3.608187	191	-12	-16.95	-22.35	-27.76
383	111.78	192	6.002703	5.488571	3.578947	192	-12.01	-16.95	-22.35	-27.76
385	111.76	193	6.002703	5.474286	3.608187	193	-12.02	-16.94	-22.35	-27.75
387	111.79	194	6.016216	5.417143	3.681287	194	-12.02	-16.92	-22.34	-27.74
389	111.76	195	6.002703	5.474286	3.681287	195	-11.98	-16.9	-22.34	-27.73
391	111.8	196	6.056757	5.488571	3.710526	196	-11.98	-16.89	-22.33	-27.72
393	111.77	197	6.07027	5.502857	3.637427	197	-12.01	-16.88	-22.33	-27.72
395	111.8	198	6.083784	5.474286	3.666667	198	-12	-16.88	-22.34	-27.72
397	111.78	199	6.07027	5.431429	3.652047	199	-11.97	-16.86	-22.33	-27.71
399	111.81	200	6.043243	5.502857	3.652047	200	-11.98	-16.86	-22.32	-27.7
401	111.78	201	6.056757	5.517143	3.725146	201	-11.97	-16.84	-22.31	-27.69
403	111.8	202	6.056757	5.502857	3.637427	202	-12	-16.84	-22.32	-27.69
405	111.78	203	6.043243	5.474286	3.608187	203	-11.97	-16.82	-22.32	-27.68
407	111.81	204	6.083784	5.502857	3.637427	204	-11.94	-16.81	-22.31	-27.67
409	111.78	205	6.137838	5.531429	3.739766	205	-11.97	-16.8	-22.3	-27.67
411	111.8	206	6.124324	5.502857	3.725146	206	-11.98	-16.79	-22.3	-27.67
413	111.78	207	6.097297	5.502857	3.739766	207	-11.98	-16.79	-22.31	-27.67
415	111.8	208	6.137838	5.574286	3.681287	208	-11.94	-16.77	-22.3	-27.65
417	111.78	209	6.151351	5.531429	3.710526	209	-11.93	-16.75	-22.28	-27.64
419	111.81	210	6.110811	5.617143	3.725146	210	-11.97	-16.75	-22.28	-27.65

421	111.78	211	6.097297	5.56	3.725146	211	-11.95	-16.73	-22.27	-27.63
423	111.81	212	6.124324	5.602857	3.725146	212	-11.92	-16.72	-22.28	-27.63
425	111.79	213	6.151351	5.574286	3.710526	213	-11.93	-16.71	-22.28	-27.63
427	111.82	214	6.178378	5.588571	3.710526	214	-11.95	-16.7	-22.28	-27.62
429	111.82	215	6.164865	5.588571	3.739766	215	-11.95	-16.7	-22.3	-27.62
431	111.82	216	6.110811	5.574286	3.812865	216	-11.92	-16.68	-22.29	-27.61
433	111.82	217	6.097297	5.56	3.710526	217	-11.91	-16.67	-22.28	-27.6
435	111.81	218	6.137838	5.517143	3.652047	218	-11.91	-16.66	-22.29	-27.6
437	111.83	219	6.137838	5.56	3.695906	219	-11.92	-16.65	-22.28	-27.6
439	111.81	220	6.164865	5.545714	3.710526	220	-11.94	-16.64	-22.29	-27.6
441	111.83	221	6.178378	5.545714	3.666667	221	-11.93	-16.64	-22.29	-27.6
443	111.81	222	6.137838	5.545714	3.652047	222	-11.91	-16.63	-22.29	-27.59
445	111.84	223	6.124324	5.502857	3.622807	223	-11.9	-16.62	-22.29	-27.59
447	111.81	224	6.164865	5.531429	3.593567	224	-11.9	-16.61	-22.28	-27.58
449	111.84	225	6.137838	5.588571	3.608187	225	-11.93	-16.6	-22.28	-27.58
451	111.82	226	6.137838	5.574286	3.622807	226	-11.93	-16.61	-22.29	-27.59
453	111.85	227	6.137838	5.66	3.681287	227	-11.9	-16.59	-22.28	-27.57
455	111.84	228	6.151351	5.631429	3.739766	228	-11.9	-16.58	-22.29	-27.57
457	111.86	229	6.151351	5.674286	3.769006	229	-11.89	-16.57	-22.28	-27.56
459	111.83	230	6.151351	5.602857	3.739766	230	-11.93	-16.56	-22.27	-27.56
461	111.86	231	6.164865	5.531429	3.769006	231	-11.91	-16.55	-22.26	-27.56
463	111.83	232	6.232432	5.56	3.783626	232	-11.87	-16.53	-22.26	-27.55
465	111.86	233	6.218919	5.631429	3.754386	233	-11.89	-16.53	-22.25	-27.54
467	111.82	234	6.272973	5.717143	3.739766	234	-11.9	-16.52	-22.25	-27.53
469	111.86	235	6.286486	5.702857	3.725146	235	-11.88	-16.5	-22.23	-27.52
471	111.83	236	6.259459	5.617143	3.739766	236	-11.86	-16.49	-22.24	-27.52
473	111.87	237	6.259459	5.702857	3.798246	237	-11.85	-16.48	-22.23	-27.51
475	111.85	238	6.3	5.745714	3.695906	238	-11.87	-16.47	-22.22	-27.51
477	111.88	239	6.272973	5.731429	3.710526	239	-11.88	-16.47	-22.22	-27.51
479	111.84	240	6.313514	5.76	3.769006	240	-11.84	-16.45	-22.22	-27.5
481	111.85	241	6.327027	5.774286	3.783626	241	-11.82	-16.44	-22.2	-27.48
483	111.88	242	6.327027	5.774286	3.769006	242	-11.86	-16.43	-22.19	-27.48
485	111.89	243	6.367568	5.802857	3.783626	243	-11.84	-16.42	-22.2	-27.47
487	111.85	244	6.340541	5.817143	3.812865	244	-11.82	-16.4	-22.19	-27.46
489	111.89	245	6.367568	5.802857	3.856725	245	-11.81	-16.4	-22.19	-27.46
491	111.86	246	6.381081	5.874286	3.842105	246	-11.82	-16.39	-22.19	-27.46
493	111.89	247	6.435135	5.888571	3.856725	247	-11.83	-16.38	-22.19	-27.45
495	111.89	248	6.408108	5.831429	3.915205	248	-11.82	-16.37	-22.18	-27.44
497	111.89	249	6.367568	5.845714	3.929825	249	-11.79	-16.36	-22.17	-27.43
499	111.89	250	6.381081	5.845714	3.900585	250	-11.8	-16.34	-22.16	-27.42
501	111.86	251	6.367568	5.845714	3.856725	251	-11.82	-16.34	-22.17	-27.42
503	111.9	252	6.408108	5.845714	3.856725	252	-11.8	-16.33	-22.17	-27.41
505	111.86	253	6.394595	5.888571	3.885965	253	-11.79	-16.32	-22.16	-27.4
507	111.89	254	6.340541	5.831429	3.885965	254	-11.78	-16.31	-22.16	-27.4
509	111.87	255	6.421622	5.86	3.900585	255	-11.8	-16.3	-22.15	-27.39

511	111.9	256	6.435135	5.888571	3.885965	256	-11.8	-16.29	-22.15	-27.39
513	111.88	257	6.448649	5.917143	3.842105	257	-11.77	-16.28	-22.15	-27.38
515	111.9	258	6.408108	5.902857	3.885965	258	-11.75	-16.27	-22.14	-27.37
517	111.88	259	6.408108	5.917143	3.842105	259	-11.78	-16.27	-22.14	-27.38
519	111.91	260	6.421622	5.888571	3.885965	260	-11.8	-16.26	-22.15	-27.37
521	111.88	261	6.394595	5.917143	3.915205	261	-11.76	-16.24	-22.14	-27.36
523	111.91	262	6.381081	5.917143	3.944444	262	-11.75	-16.24	-22.13	-27.36
525	111.92	263	6.408108	5.874286	3.856725	263	-11.75	-16.22	-22.12	-27.35
527	111.91	264	6.408108	5.888571	3.827485	264	-11.78	-16.22	-22.12	-27.34
529	111.92	265	6.367568	5.945714	3.842105	265	-11.76	-16.21	-22.12	-27.34
531	111.92	266	6.408108	5.917143	3.929825	266	-11.73	-16.2	-22.11	-27.33
533	111.9	267	6.394595	5.888571	3.900585	267	-11.74	-16.19	-22.11	-27.33
535	111.95	268	6.408108	5.945714	3.856725	268	-11.77	-16.18	-22.12	-27.32
537	111.93	269	6.421622	5.96	3.827485	269	-11.73	-16.17	-22.12	-27.32
539	111.95	270	6.394595	5.945714	3.827485	270	-11.73	-16.16	-22.12	-27.32
541	111.93	271	6.475676	5.874286	3.827485	271	-11.76	-16.15	-22.12	-27.31
543	111.91	272	6.448649	5.874286	3.856725	272	-11.74	-16.15	-22.13	-27.31
545	111.93	273	6.448649	5.845714	3.885965	273	-11.72	-16.14	-22.12	-27.31
547	111.92	274	6.435135	5.888571	3.798246	274	-11.71	-16.13	-22.13	-27.3
549	111.93	275	6.381081	5.945714	3.754386	275	-11.75	-16.13	-22.12	-27.3
551	111.91	276	6.421622	5.945714	3.798246	276	-11.74	-16.12	-22.12	-27.3
553	111.93	277	6.435135	5.888571	3.842105	277	-11.69	-16.1	-22.11	-27.28
555	111.94	278	6.448649	5.945714	3.827485	278	-11.7	-16.09	-22.1	-27.27
557	111.95	279	6.421622	5.945714	3.827485	279	-11.73	-16.08	-22.09	-27.27
559	111.94	280	6.421622	5.96	3.812865	280	-11.71	-16.07	-22.09	-27.26
561	111.91	281	6.435135	5.917143	3.783626	281	-11.69	-16.06	-22.09	-27.26
563	111.94	282	6.435135	5.917143	3.856725	282	-11.68	-16.05	-22.08	-27.25
565	111.93	283	6.421622	5.931429	3.885965	283	-11.7	-16.04	-22.09	-27.25
567	111.95	284	6.421622	5.945714	3.885965	284	-11.7	-16.04	-22.09	-27.25
569	111.92	285	6.435135	5.988571	3.885965	285	-11.68	-16.03	-22.09	-27.24
571	111.96	286	6.421622	5.931429	3.754386	286	-11.67	-16.01	-22.08	-27.23
573	111.93	287	6.367568	5.96	3.769006	287	-11.69	-16	-22.08	-27.23
575	111.95	288	6.394595	6.002857	3.783626	288	-11.7	-16.01	-22.09	-27.23
577	111.94	289	6.394595	5.974286	3.827485	289	-11.67	-15.99	-22.09	-27.23
579	111.96	290	6.394595	5.96	3.812865	290	-11.65	-15.98	-22.09	-27.22
581	111.94	291	6.381081	5.888571	3.739766	291	-11.67	-15.97	-22.07	-27.21
583	111.96	292	6.408108	5.902857	3.754386	292	-11.68	-15.96	-22.07	-27.2
585	111.93	293	6.408108	5.917143	3.739766	293	-11.69	-15.97	-22.08	-27.21
587	111.97	294	6.421622	5.945714	3.739766	294	-11.66	-15.96	-22.08	-27.2
589	111.94	295	6.475676	5.96	3.783626	295	-11.65	-15.95	-22.08	-27.2
591	111.97	296	6.475676	5.974286	3.798246	296	-11.66	-15.94	-22.07	-27.2
593	111.98	297	6.435135	5.902857	3.739766	297	-11.69	-15.94	-22.08	-27.2
595	111.98	298	6.408108	5.845714	3.754386	298	-11.67	-15.93	-22.08	-27.19
597	111.96	299	6.421622	5.888571	3.739766	299	-11.65	-15.92	-22.07	-27.18
599	111.98	300	6.408108	5.974286	3.725146	300	-11.64	-15.91	-22.06	-27.17

601	111.98	301	6.421622	5.945714	3.739766	301	-11.65	-15.9	-22.05	-27.16
603	111.95	302	6.435135	5.945714	3.769006	302	-11.67	-15.89	-22.05	-27.16
605	111.98	303	6.394595	5.96	3.783626	303	-11.63	-15.88	-22.05	-27.15
607	111.95	304	6.394595	5.988571	3.769006	304	-11.61	-15.87	-22.04	-27.14
609	111.9	305	6.408108	6.002857	3.710526	305	-11.63	-15.85	-22.02	-27.13
611	111.86	306	6.435135	5.96	3.710526	306	-11.64	-15.85	-22.04	-27.14
613	111.86	307	6.475676	5.988571	3.695906	307	-11.63	-15.85	-22.03	-27.13
615	111.83	308	6.448649	5.96	3.695906	308	-11.6	-15.83	-22.03	-27.12
617	111.85	309	6.435135	5.931429	3.739766	309	-11.6	-15.82	-22.02	-27.11
619	111.83	310	6.462162	5.931429	3.798246	310	-11.61	-15.81	-22.01	-27.1
621	111.84	311	6.489189	5.974286	3.798246	311	-11.61	-15.81	-22.01	-27.1
623	111.83	312	6.448649	6.017143	3.769006	312	-11.61	-15.8	-22.01	-27.1
625	111.87	313	6.462162	6.045714	3.812865	313	-11.58	-15.78	-22	-27.09
627	111.86	314	6.462162	5.988571	3.827485	314	-11.59	-15.78	-22	-27.09
629	111.86	315	6.462162	6.002857	3.783626	315	-11.58	-15.77	-21.99	-27.08
631	111.87	316	6.475676	6.002857	3.754386	316	-11.59	-15.77	-22	-27.08
633	111.87	317	6.462162	6.017143	3.769006	317	-11.6	-15.76	-22	-27.07
635	111.87	318	6.489189	6.045714	3.754386	318	-11.56	-15.74	-21.99	-27.06
637	111.83	319	6.489189	6.002857	3.842105	319	-11.57	-15.73	-21.98	-27.06
639	111.86	320	6.502703	5.974286	3.798246	320	-11.58	-15.73	-21.98	-27.05
641	111.83	321	6.502703	5.988571	3.725146	321	-11.57	-15.72	-21.97	-27.04
643	111.86	322	6.489189	5.974286	3.754386	322	-11.54	-15.71	-21.97	-27.03
645	111.87	323	6.448649	5.988571	3.783626	323	-11.53	-15.7	-21.96	-27.03
647	111.87	324	6.475676	6.074286	3.710526	324	-11.56	-15.69	-21.96	-27.03
649	111.87	325	6.489189	6.131429	3.725146	325	-11.56	-15.69	-21.96	-27.02
651	111.84	326	6.556757	6.088571	3.739766	326	-11.53	-15.67	-21.95	-27.01
653	111.87	327	6.543243	6.06	3.725146	327	-11.53	-15.66	-21.94	-27
655	111.84	328	6.543243	6.031429	3.725146	328	-11.56	-15.66	-21.94	-27
657	111.87	329	6.52973	6.031429	3.710526	329	-11.52	-15.65	-21.94	-26.99
659	111.84	330	6.516216	6.045714	3.695906	330	-11.5	-15.64	-21.94	-26.98
661	111.87	331	6.502703	6.031429	3.754386	331	-11.5	-15.63	-21.93	-26.97
663	111.84	332	6.489189	6.002857	3.769006	332	-11.53	-15.62	-21.93	-26.97
665	111.87	333	6.502703	6.074286	3.783626	333	-11.53	-15.62	-21.94	-26.97
667	111.83	334	6.489189	6.088571	3.798246	334	-11.5	-15.61	-21.93	-26.96
669	111.87	335	6.502703	6.088571	3.710526	335	-11.49	-15.6	-21.92	-26.95
671	111.84	336	6.489189	6.088571	3.681287	336	-11.51	-15.6	-21.93	-26.95
673	111.88	337	6.502703	6.074286	3.769006	337	-11.52	-15.59	-21.93	-26.94
675	111.85	338	6.583784	6.06	3.798246	338	-11.52	-15.59	-21.93	-26.94
677	111.88	339	6.610811	6.045714	3.739766	339	-11.47	-15.56	-21.91	-26.93
679	111.86	340	6.556757	6.017143	3.769006	340	-11.48	-15.55	-21.91	-26.92
681	111.88	341	6.52973	5.974286	3.739766	341	-11.51	-15.55	-21.91	-26.92
683	111.86	342	6.556757	5.988571	3.681287	342	-11.49	-15.54	-21.9	-26.9
685	111.89	343	6.52973	6.045714	3.666667	343	-11.45	-15.52	-21.89	-26.89
687	111.86	344	6.516216	6.017143	3.695906	344	-11.44	-15.51	-21.88	-26.89
689	111.89	345	6.516216	6.088571	3.695906	345	-11.48	-15.51	-21.89	-26.89

691	111.88	346	6.52973	6.06	3.666667	346	-11.48	-15.51	-21.9	-26.89
693	111.86	347	6.556757	6.06	3.652047	347	-11.45	-15.49	-21.89	-26.88
695	111.89	348	6.556757	6.045714	3.637427	348	-11.44	-15.48	-21.88	-26.87
697	111.87	349	6.516216	6.074286	3.637427	349	-11.45	-15.48	-21.88	-26.87
699	111.89	350	6.489189	6.117143	3.710526	350	-11.47	-15.47	-21.88	-26.87
701	111.86	351	6.462162	6.102857	3.666667	351	-11.46	-15.47	-21.89	-26.87
703	111.89	352	6.502703	6.088571	3.666667	352	-11.43	-15.46	-21.88	-26.86
705	111.87	353	6.475676	6.088571	3.637427	353	-11.43	-15.45	-21.88	-26.85
707	111.89	354	6.52973	6.045714	3.622807	354	-11.44	-15.44	-21.88	-26.84
709	111.86	355	6.543243	6.002857	3.710526	355	-11.45	-15.43	-21.88	-26.84
711	111.9	356	6.489189	6.002857	3.666667	356	-11.43	-15.42	-21.88	-26.83
713	111.87	357	6.516216	5.96	3.608187	357	-11.41	-15.41	-21.88	-26.83
715	111.9	358	6.516216	5.974286	3.608187	358	-11.41	-15.4	-21.88	-26.83
717	111.87	359	6.516216	6.017143	3.535088	359	-11.43	-15.4	-21.88	-26.83
719	111.9	360	6.408108	5.945714	3.535088	360	-11.44	-15.4	-21.88	-26.82
721	111.88	361	6.408108	5.96	3.564327	361	-11.42	-15.39	-21.88	-26.82
723	111.9	362	6.435135	6.002857	3.564327	362	-11.41	-15.38	-21.87	-26.81
725	111.88	363	6.448649	6.002857	3.491228	363	-11.41	-15.38	-21.87	-26.81
727	111.9	364	6.448649	6.002857	3.505848	364	-11.45	-15.38	-21.87	-26.81
729	111.88	365	6.462162	5.96	3.535088	365	-11.4	-15.36	-21.86	-26.79
731	111.9	366	6.489189	6.031429	3.535088	366	-11.39	-15.35	-21.85	-26.79
733	111.91	367	6.462162	6.002857	3.535088	367	-11.39	-15.34	-21.85	-26.78
735	111.91	368	6.516216	6.017143	3.491228	368	-11.39	-15.33	-21.84	-26.77
737	111.89	369	6.583784	6.031429	3.505848	369	-11.41	-15.33	-21.84	-26.77
739	111.93	370	6.516216	5.988571	3.608187	370	-11.38	-15.32	-21.84	-26.77
741	111.9	371	6.516216	5.945714	3.549708	371	-11.38	-15.32	-21.84	-26.76
743	111.94	372	6.489189	6.017143	3.461988	372	-11.38	-15.31	-21.84	-26.76
745	111.92	373	6.516216	6.045714	3.549708	373	-11.41	-15.3	-21.84	-26.76
747	111.96	374	6.462162	6.06	3.622807	374	-11.37	-15.29	-21.83	-26.74
749	111.9	375	6.435135	6.045714	3.535088	375	-11.36	-15.29	-21.83	-26.74
751	111.93	376	6.475676	6.06	3.535088	376	-11.39	-15.28	-21.82	-26.73
753	111.93	377	6.516216	6.074286	3.535088	377	-11.37	-15.27	-21.82	-26.72
755	111.91	378	6.516216	6.017143	3.505848	378	-11.35	-15.26	-21.81	-26.71
757	111.93	379	6.489189	6.002857	3.447368	379	-11.34	-15.25	-21.81	-26.71
759	111.91	380	6.516216	6.031429	3.505848	380	-11.36	-15.24	-21.79	-26.69
761	111.94	381	6.475676	6.017143	3.578947	381	-11.36	-15.24	-21.8	-26.69
763	111.91	382	6.435135	6.031429	3.564327	382	-11.34	-15.23	-21.8	-26.68
765	111.94	383	6.448649	6.017143	3.520468	383	-11.32	-15.21	-21.78	-26.67
767	111.91	384	6.502703	6.017143	3.491228	384	-11.35	-15.21	-21.79	-26.67
769	111.94	385	6.489189	6.045714	3.476608	385	-11.36	-15.2	-21.78	-26.66
771	111.9	386	6.475676	6.088571	3.476608	386	-11.3	-15.18	-21.77	-26.64
773	111.93	387	6.435135	6.06	3.447368	387	-11.31	-15.18	-21.76	-26.64
775	111.89	388	6.448649	6.117143	3.418129	388	-11.32	-15.17	-21.76	-26.62
777	111.95	389	6.475676	6.074286	3.432749	389	-11.33	-15.16	-21.76	-26.62
779	111.9	390	6.462162	6.017143	3.403509	390	-11.3	-15.16	-21.77	-26.63

781	111.94	391	6.475676	5.974286	3.491228	391	-11.31	-15.16	-21.77	-26.62
783	111.91	392	6.489189	6.031429	3.520468	392	-11.33	-15.15	-21.78	-26.62
785	111.95	393	6.489189	6.06	3.447368	393	-11.32	-15.15	-21.78	-26.62
787	111.93	394	6.448649	6.074286	3.476608	394	-11.3	-15.13	-21.78	-26.61
789	111.91	395	6.435135	5.988571	3.432749	395	-11.29	-15.12	-21.78	-26.6
791	111.94	396	6.435135	5.888571	3.374269	396	-11.32	-15.12	-21.78	-26.6
793	111.92	397	6.475676	5.96	3.388889	397	-11.33	-15.12	-21.78	-26.6
795	111.94	398	6.435135	5.96	3.388889	398	-11.28	-15.11	-21.78	-26.59
797	111.95	399	6.394595	5.917143	3.388889	399	-11.29	-15.1	-21.77	-26.59
799	111.94	400	6.408108	5.917143	3.374269	400	-11.32	-15.1	-21.78	-26.59
801	111.91	401	6.435135	5.931429	3.345029	401	-11.29	-15.08	-21.77	-26.57
803	111.94	402	6.408108	5.945714	3.359649	402	-11.26	-15.07	-21.75	-26.56
805	111.92	403	6.421622	5.945714	3.315789	403	-11.28	-15.06	-21.74	-26.56
807	111.94	404	6.435135	5.931429	3.315789	404	-11.28	-15.05	-21.74	-26.55
809	111.95	405	6.448649	5.945714	3.30117	405	-11.27	-15.05	-21.74	-26.54
811	111.92	406	6.462162	5.945714	3.27193	406	-11.23	-15.03	-21.73	-26.53
813	111.94	407	6.421622	5.902857	3.30117	407	-11.26	-15.03	-21.73	-26.53
815	111.95	408	6.435135	5.96	3.374269	408	-11.28	-15.03	-21.73	-26.53
817	111.91	409	6.421622	5.917143	3.359649	409	-11.25	-15.02	-21.72	-26.52
819	111.95	410	6.354054	5.945714	3.30117	410	-11.22	-15	-21.72	-26.5
821	111.94	411	6.381081	5.96	3.28655	411	-11.24	-14.99	-21.7	-26.49
823	111.95	412	6.448649	5.931429	3.25731	412	-11.24	-14.99	-21.71	-26.48
825	111.92	413	6.462162	5.988571	3.22807	413	-11.23	-14.98	-21.7	-26.48
827	111.96	414	6.462162	6.031429	3.21345	414	-11.2	-14.97	-21.69	-26.47
829	111.93	415	6.448649	6.002857	3.25731	415	-11.21	-14.96	-21.69	-26.46
831	111.96	416	6.475676	6.017143	3.27193	416	-11.23	-14.96	-21.69	-26.46
833	111.95	417	6.435135	6.017143	3.24269	417	-11.24	-14.96	-21.69	-26.46
835	111.93	418	6.381081	6.017143	3.315789	418	-11.2	-14.94	-21.68	-26.45
837	111.96	419	6.367568	6.017143	3.374269	419	-11.2	-14.94	-21.67	-26.44
839	111.93	420	6.421622	6.031429	3.388889	420	-11.23	-14.93	-21.67	-26.43
841	111.95	421	6.421622	6.045714	3.345029	421	-11.19	-14.92	-21.67	-26.43
843	111.93	422	6.462162	6.002857	3.28655	422	-11.18	-14.92	-21.67	-26.42
845	111.95	423	6.475676	5.945714	3.315789	423	-11.17	-14.91	-21.66	-26.41
847	111.93	424	6.489189	5.945714	3.28655	424	-11.21	-14.9	-21.66	-26.41
849	111.96	425	6.489189	6.045714	3.30117	425	-11.19	-14.89	-21.67	-26.4
851	111.92	426	6.435135	6.002857	3.27193	426	-11.17	-14.89	-21.67	-26.4
853	111.95	427	6.394595	5.974286	3.24269	427	-11.17	-14.88	-21.66	-26.39
855	111.93	428	6.408108	6.002857	3.24269	428	-11.18	-14.88	-21.66	-26.39
857	111.95	429	6.435135	5.988571	3.24269	429	-11.19	-14.88	-21.67	-26.39
859	111.93	430	6.435135	5.96	3.140351	430	-11.18	-14.87	-21.67	-26.38
861	111.96	431	6.408108	5.96	3.184211	431	-11.15	-14.85	-21.66	-26.36
863	111.95	432	6.354054	5.931429	3.19883	432	-11.16	-14.84	-21.65	-26.35
865	111.97	433	6.354054	5.945714	3.184211	433	-11.17	-14.83	-21.64	-26.35
867	111.95	434	6.394595	5.931429	3.169591	434	-11.16	-14.82	-21.64	-26.33
869	111.98	435	6.394595	5.974286	3.125731	435	-11.14	-14.82	-21.64	-26.33

871	111.95	436	6.381081	5.96	3.125731	436	-11.13	-14.81	-21.63	-26.32
873	111.98	437	6.354054	5.888571	3.111111	437	-11.16	-14.81	-21.65	-26.33
875	111.94	438	6.367568	5.917143	3.052632	438	-11.16	-14.8	-21.65	-26.32
877	111.98	439	6.381081	5.931429	3.038012	439	-11.13	-14.79	-21.63	-26.3
879	111.95	440	6.354054	5.888571	3.096491	440	-11.11	-14.77	-21.61	-26.29
881	111.98	441	6.313514	5.902857	3.125731	441	-11.15	-14.78	-21.62	-26.29
883	111.95	442	6.272973	5.888571	3.111111	442	-11.15	-14.77	-21.62	-26.28
885	111.98	443	6.3	5.845714	3.096491	443	-11.11	-14.75	-21.61	-26.27
887	111.96	444	6.340541	5.902857	3.067251	444	-11.1	-14.74	-21.6	-26.26
889	111.98	445	6.327027	5.902857	3.038012	445	-11.1	-14.74	-21.6	-26.26
891	111.95	446	6.340541	5.888571	3.052632	446	-11.15	-14.74	-21.6	-26.26
893	111.98	447	6.354054	5.86	3.008772	447	-11.1	-14.73	-21.6	-26.25
895	111.95	448	6.327027	5.888571	2.994152	448	-11.09	-14.72	-21.59	-26.24
897	111.97	449	6.313514	5.86	3.023392	449	-11.12	-14.71	-21.59	-26.23
899	111.95	450	6.313514	5.917143	3.008772	450	-11.11	-14.71	-21.59	-26.23
901	111.97	451	6.313514	5.888571	3.008772	451	-11.09	-14.7	-21.59	-26.22
903	111.94	452	6.340541	5.845714	3.067251	452	-11.07	-14.69	-21.59	-26.22
905	111.97	453	6.286486	5.874286	3.067251	453	-11.09	-14.68	-21.58	-26.21
907	111.96	454	6.245946	5.831429	3.008772	454	-11.1	-14.68	-21.59	-26.21
909	111.98	455	6.259459	5.831429	2.950292	455	-11.1	-14.68	-21.6	-26.21
911	111.94	456	6.245946	5.86	2.994152	456	-11.07	-14.67	-21.59	-26.2
913	111.97	457	6.259459	5.902857	2.950292	457	-11.06	-14.65	-21.58	-26.18
915	111.94	458	6.272973	5.86	2.979532	458	-11.09	-14.65	-21.58	-26.18
917	111.97	459	6.259459	5.802857	2.935673	459	-11.08	-14.65	-21.58	-26.17
919	111.94	460	6.259459	5.774286	2.935673	460	-11.05	-14.64	-21.58	-26.16
921	111.96	461	6.259459	5.845714	2.964912	461	-11.04	-14.62	-21.56	-26.15
923	111.94	462	6.259459	5.831429	2.921053	462	-11.09	-14.63	-21.57	-26.16
925	111.97	463	6.3	5.76	2.891813	463	-11.08	-14.63	-21.57	-26.15
927	111.94	464	6.272973	5.831429	2.877193	464	-11.03	-14.61	-21.56	-26.13
929	111.96	465	6.245946	5.845714	2.833333	465	-11.03	-14.59	-21.54	-26.11
931	111.93	466	6.259459	5.831429	2.877193	466	-11.06	-14.59	-21.53	-26.11
933	111.97	467	6.245946	5.802857	2.862573	467	-11.05	-14.59	-21.54	-26.1
935	111.96	468	6.327027	5.831429	2.862573	468	-11.02	-14.58	-21.54	-26.1
937	111.94	469	6.259459	5.817143	2.921053	469	-11.01	-14.57	-21.51	-26.08
939	111.96	470	6.259459	5.802857	2.862573	470	-11.04	-14.57	-21.52	-26.08
941	111.93	471	6.232432	5.845714	2.921053	471	-11.04	-14.56	-21.52	-26.07
943	111.96	472	6.232432	5.774286	2.877193	472	-10.99	-14.55	-21.51	-26.05
945	111.95	473	6.272973	5.845714	2.804094	473	-11	-14.54	-21.5	-26.05
947	111.93	474	6.259459	5.745714	2.847953	474	-11.01	-14.53	-21.5	-26.04
949	111.97	475	6.259459	5.76	2.891813	475	-11.03	-14.53	-21.5	-26.03
951	111.98	476	6.272973	5.76	2.847953	476	-10.99	-14.52	-21.5	-26.02
953	111.97	477	6.313514	5.817143	2.847953	477	-10.97	-14.51	-21.49	-26.01
955	111.97	478	6.340541	5.817143	2.877193	478	-11	-14.51	-21.49	-26.01
957	111.96	479	6.3	5.817143	2.862573	479	-11.01	-14.51	-21.49	-26.01
959	111.96	480	6.286486	5.76	2.833333	480	-10.98	-14.5	-21.5	-26

961	111.94	481	6.218919	5.76	2.804094	481	-10.96	-14.48	-21.48	-25.98
963	111.96	482	6.205405	5.674286	2.789474	482	-10.96	-14.48	-21.47	-25.97
965	111.94	483	6.164865	5.745714	2.847953	483	-10.99	-14.47	-21.47	-25.97
967	111.97	484	6.164865	5.831429	2.804094	484	-10.98	-14.47	-21.48	-25.96
969	111.95	485	6.164865	5.802857	2.730994	485	-10.95	-14.46	-21.47	-25.95
971	111.96	486	6.164865	5.76	2.716374	486	-10.96	-14.45	-21.46	-25.94
973	111.93	487	6.205405	5.674286	2.760234	487	-10.99	-14.46	-21.46	-25.94
975	111.96	488	6.232432	5.674286	2.745614	488	-10.95	-14.44	-21.46	-25.93
977	111.93	489	6.205405	5.688571	2.745614	489	-10.93	-14.43	-21.45	-25.91
979	111.96	490	6.164865	5.731429	2.672515	490	-10.93	-14.42	-21.44	-25.9
981	111.93	491	6.178378	5.717143	2.745614	491	-10.97	-14.42	-21.45	-25.9
983	111.95	492	6.137838	5.674286	2.745614	492	-10.95	-14.42	-21.45	-25.9
985	111.93	493	6.137838	5.688571	2.672515	493	-10.93	-14.41	-21.45	-25.89
987	111.96	494	6.137838	5.702857	2.701754	494	-10.95	-14.41	-21.45	-25.89
989	111.93	495	6.124324	5.688571	2.657895	495	-10.95	-14.41	-21.46	-25.88
991	111.96	496	6.124324	5.602857	2.584795	496	-10.94	-14.39	-21.45	-25.86
993	111.96	497	6.178378	5.631429	2.614035	497	-10.92	-14.38	-21.44	-25.85
995	111.93	498	6.151351	5.688571	2.614035	498	-10.92	-14.38	-21.43	-25.84
997	111.96	499	6.124324	5.66	2.614035	499	-10.93	-14.37	-21.43	-25.83
999	111.94	500	6.097297	5.617143	2.599415	500	-10.94	-14.36	-21.42	-25.82
1001	111.96	501	6.083784	5.574286	2.628655	501	-10.89	-14.35	-21.42	-25.81
1003	111.94	502	6.083784	5.617143	2.614035	502	-10.9	-14.34	-21.41	-25.8
1005	111.96	503	6.097297	5.602857	2.570175	503	-10.9	-14.34	-21.4	-25.79
1007	111.94	504	6.097297	5.617143	2.584795	504	-10.91	-14.33	-21.4	-25.78
1009	111.96	505	6.043243	5.602857	2.526316	505	-10.9	-14.33	-21.4	-25.77
1011	111.93	506	6.07027	5.602857	2.497076	506	-10.86	-14.31	-21.38	-25.75
1013	111.96	507	6.097297	5.588571	2.511696	507	-10.87	-14.31	-21.38	-25.75
1015	111.96	508	6.083784	5.588571	2.511696	508	-10.91	-14.31	-21.39	-25.75
1017	111.96	509	6.056757	5.588571	2.497076	509	-10.87	-14.3	-21.38	-25.73
1019	111.96	510	6.002703	5.56	2.467836	510	-10.86	-14.29	-21.37	-25.73
1021	111.95	511	6.02973	5.602857	2.497076	511	-10.9	-14.29	-21.37	-25.72
1023	111.96	512	6.016216	5.588571	2.467836	512	-10.87	-14.28	-21.38	-25.71
1025	111.95	513	6.016216	5.602857	2.497076	513	-10.85	-14.27	-21.37	-25.7
1027	111.98	514	5.989189	5.574286	2.482456	514	-10.84	-14.26	-21.36	-25.69
1029	111.93	515	5.935135	5.574286	2.423977	515	-10.87	-14.26	-21.36	-25.69
1031	111.96	516	5.948649	5.517143	2.497076	516	-10.89	-14.26	-21.37	-25.68
1033	111.93	517	5.962162	5.531429	2.453216	517	-10.83	-14.25	-21.37	-25.67
1035	111.96	518	6.02973	5.502857	2.438596	518	-10.83	-14.24	-21.35	-25.65
1037	111.93	519	5.962162	5.474286	2.423977	519	-10.84	-14.23	-21.35	-25.65
1039	111.95	520	5.962162	5.488571	2.394737	520	-10.85	-14.23	-21.35	-25.63
1041	111.93	521	5.962162	5.46	2.365497	521	-10.83	-14.21	-21.34	-25.62
1043	111.96	522	5.975676	5.46	2.365497	522	-10.8	-14.2	-21.33	-25.6
1045	111.93	523	5.962162	5.402857	2.409357	523	-10.8	-14.19	-21.33	-25.6
1047	111.96	524	5.935135	5.417143	2.409357	524	-10.82	-14.2	-21.33	-25.6
1049	111.93	525	5.894595	5.417143	2.453216	525	-10.83	-14.2	-21.33	-25.59

1051	111.95	526	5.894595	5.374286	2.423977	526	-10.82	-14.18	-21.32	-25.57
1053	111.93	527	5.908108	5.331429	2.365497	527	-10.78	-14.17	-21.31	-25.56
1055	111.95	528	5.921622	5.331429	2.350877	528	-10.78	-14.16	-21.3	-25.55
1057	111.93	529	5.921622	5.36	2.438596	529	-10.8	-14.15	-21.3	-25.54
1059	111.95	530	5.894595	5.345714	2.336257	530	-10.81	-14.15	-21.31	-25.53
1061	111.93	531	5.854054	5.331429	2.307018	531	-10.77	-14.13	-21.3	-25.52
1063	112.01	532	5.854054	5.36	2.336257	532	-10.79	-14.14	-21.31	-25.52
1065	111.95	533	5.854054	5.345714	2.277778	533	-10.82	-14.14	-21.32	-25.52
1067	111.93	534	5.840541	5.317143	2.263158	534	-10.79	-14.13	-21.32	-25.51
1069	111.95	535	5.813514	5.245714	2.219298	535	-10.76	-14.12	-21.32	-25.5
1071	111.94	536	5.827027	5.274286	2.277778	536	-10.79	-14.12	-21.32	-25.5
1073	111.96	537	5.813514	5.288571	2.277778	537	-10.8	-14.12	-21.33	-25.49
1075	111.94	538	5.8	5.231429	2.160819	538	-10.8	-14.11	-21.33	-25.48
1077	111.96	539	5.759459	5.202857	2.160819	539	-10.75	-14.1	-21.32	-25.47
1079	111.94	540	5.759459	5.16	2.190058	540	-10.77	-14.09	-21.32	-25.46
1081	111.96	541	5.745946	5.217143	2.190058	541	-10.77	-14.09	-21.32	-25.46
1083	111.97	542	5.705405	5.231429	2.131579	542	-10.79	-14.08	-21.32	-25.45
		543	5.718919	5.231429	2.190058	543	-10.77	-14.08	-21.31	-25.44
		544	5.705405	5.145714	2.160819	544	-10.76	-14.07	-21.31	-25.43
		545	5.772973	5.217143	2.146199	545	-10.76	-14.06	-21.29	-25.42
		546	5.772973	5.188571	2.116959	546	-10.78	-14.07	-21.3	-25.41
		547	5.759459	5.117143	2.116959	547	-10.76	-14.06	-21.29	-25.4
		548	5.745946	5.174286	2.04386	548	-10.74	-14.05	-21.28	-25.39
		549	5.745946	5.217143	2.04386	549	-10.75	-14.04	-21.28	-25.38
		550	5.705405	5.131429	2.087719	550	-10.76	-14.04	-21.29	-25.37
		551	5.691892	5.131429	2.102339	551	-10.76	-14.03	-21.28	-25.36
		552	5.705405	5.131429	2.190058	552	-10.71	-14.02	-21.26	-25.34
		553	5.691892	5.145714	2.102339	553	-10.72	-14.01	-21.26	-25.33
		554	5.691892	5.202857	2.01462	554	-10.73	-14.01	-21.25	-25.32
		555	5.705405	5.145714	2	555	-10.72	-14	-21.24	-25.31
		556	5.664865	5.145714	2	556	-10.72	-14	-21.24	-25.3
		557	5.678378	5.174286	2.01462	557	-10.7	-13.99	-21.24	-25.29
		558	5.691892	5.16	1.98538	558	-10.71	-13.99	-21.23	-25.28
		559	5.718919	5.16	2	559	-10.73	-13.98	-21.23	-25.27
		560	5.691892	5.16	2	560	-10.71	-13.98	-21.24	-25.26
		561	5.705405	5.131429	1.98538	561	-10.68	-13.97	-21.22	-25.24
		562	5.718919	5.16	1.95614	562	-10.68	-13.96	-21.21	-25.23
		563	5.691892	5.145714	2	563	-10.71	-13.95	-21.21	-25.22
		564	5.678378	5.102857	1.926901	564	-10.69	-13.95	-21.21	-25.21
		565	5.678378	5.06	1.868421	565	-10.67	-13.95	-21.21	-25.21
		566	5.651351	5.002857	1.94152	566	-10.68	-13.95	-21.22	-25.21
		567	5.651351	5.088571	1.926901	567	-10.68	-13.94	-21.21	-25.19
		568	5.651351	5.088571	1.926901	568	-10.71	-13.93	-21.21	-25.19
		569	5.624324	5.088571	1.897661	569	-10.67	-13.93	-21.21	-25.17
		570	5.651351	5.017143	1.897661	570	-10.66	-13.91	-21.2	-25.16

571	5.610811	5.002857	1.853801	571	-10.65	-13.9	-21.2	-25.15
572	5.610811	5.045714	1.839181	572	-10.68	-13.91	-21.2	-25.15
573	5.556757	5.045714	1.751462	573	-10.68	-13.91	-21.21	-25.14
574	5.57027	5.031429	1.809942	574	-10.65	-13.9	-21.2	-25.13
575	5.52973	5.002857	1.883041	575	-10.65	-13.89	-21.19	-25.12
576	5.543243	4.96	1.809942	576	-10.67	-13.88	-21.19	-25.11
577	5.502703	5.002857	1.780702	577	-10.66	-13.88	-21.19	-25.09
578	5.52973	4.988571	1.751462	578	-10.63	-13.87	-21.18	-25.08
579	5.57027	4.96	1.809942	579	-10.64	-13.87	-21.18	-25.07
580	5.52973	4.974286	1.897661	580	-10.66	-13.87	-21.18	-25.07
581	5.475676	4.917143	1.780702	581	-10.65	-13.86	-21.18	-25.06
582	5.489189	4.888571	1.692982	582	-10.64	-13.86	-21.18	-25.06
583	5.502703	4.86	1.780702	583	-10.63	-13.86	-21.17	-25.05
584	5.475676	4.86	1.853801	584	-10.66	-13.86	-21.18	-25.04
585	5.475676	4.874286	1.795322	585	-10.66	-13.86	-21.18	-25.04
586	5.421622	4.902857	1.722222	586	-10.62	-13.85	-21.17	-25.02
587	5.408108	4.902857	1.678363	587	-10.6	-13.83	-21.16	-25
588	5.421622	4.945714	1.678363	588	-10.62	-13.83	-21.15	-24.99
589	5.408108	4.888571	1.663743	589	-10.64	-13.82	-21.15	-24.99
590	5.381081	4.874286	1.678363	590	-10.61	-13.82	-21.15	-24.97
591	5.381081	4.802857	1.663743	591	-10.59	-13.81	-21.15	-24.96
592	5.367568	4.76	1.692982	592	-10.61	-13.8	-21.15	-24.96
593	5.367568	4.788571	1.707602	593	-10.63	-13.8	-21.16	-24.96
594	5.354054	4.702857	1.649123	594	-10.62	-13.8	-21.15	-24.95
595	5.340541	4.731429	1.576023	595	-10.59	-13.79	-21.15	-24.94
596	5.3	4.674286	1.546784	596	-10.61	-13.78	-21.14	-24.93
597	5.313514	4.645714	1.473684	597	-10.62	-13.78	-21.14	-24.92
598	5.286486	4.674286	1.473684	598	-10.59	-13.76	-21.13	-24.9
599	5.286486	4.688571	1.502924	599	-10.58	-13.77	-21.14	-24.9
600	5.3	4.645714	1.502924	600	-10.57	-13.76	-21.13	-24.89
601	5.286486	4.56	1.517544	601	-10.6	-13.76	-21.13	-24.88
602	5.3	4.588571	1.429825	602	-10.59	-13.75	-21.12	-24.87
603	5.272973	4.588571	1.371345	603	-10.57	-13.74	-21.12	-24.86
604	5.286486	4.517143	1.415205	604	-10.56	-13.73	-21.11	-24.85
605	5.245946	4.531429	1.385965	605	-10.57	-13.72	-21.1	-24.84
606	5.205405	4.531429	1.327485	606	-10.6	-13.73	-21.11	-24.85
607	5.245946	4.502857	1.283626	607	-10.56	-13.72	-21.11	-24.83
608	5.245946	4.502857	1.327485	608	-10.53	-13.7	-21.09	-24.82
609	5.205405	4.56	1.415205	609	-10.54	-13.7	-21.08	-24.81
610	5.205405	4.545714	1.342105	610	-10.58	-13.7	-21.09	-24.81
611	5.205405	4.488571	1.327485	611	-10.56	-13.7	-21.1	-24.8
612	5.191892	4.431429	1.298246	612	-10.52	-13.68	-21.08	-24.78
613	5.151351	4.445714	1.283626	613	-10.55	-13.68	-21.07	-24.77
614	5.137838	4.46	1.283626	614	-10.57	-13.68	-21.08	-24.77
615	5.137838	4.417143	1.283626	615	-10.52	-13.67	-21.07	-24.76

616	5.07027	4.36	1.239766	616	-10.52	-13.67	-21.07	-24.75
617	5.07027	4.431429	1.254386	617	-10.55	-13.67	-21.07	-24.75
618	5.07027	4.402857	1.181287	618	-10.56	-13.67	-21.07	-24.74
619	5.083784	4.417143	1.225146	619	-10.53	-13.66	-21.06	-24.73
620	5.002703	4.388571	1.239766	620	-10.51	-13.65	-21.06	-24.72
621	4.989189	4.345714	1.195906	621	-10.52	-13.65	-21.06	-24.71
622	4.975676	4.331429	1.225146	622	-10.55	-13.64	-21.05	-24.7
623	4.975676	4.317143	1.152047	623	-10.52	-13.64	-21.05	-24.69
624	4.935135	4.317143	1.078947	624	-10.51	-13.63	-21.05	-24.68
625	4.867568	4.274286	1.137427	625	-10.51	-13.62	-21.05	-24.67
626	4.908108	4.274286	1.166667	626	-10.52	-13.61	-21.04	-24.66
627	4.894595	4.302857	1.122807	627	-10.52	-13.61	-21.04	-24.65
628	4.921622	4.274286	1.078947	628	-10.52	-13.6	-21.04	-24.64
629	4.921622	4.26	1.064327	629	-10.47	-13.59	-21.03	-24.63
630	4.854054	4.245714	1.020468	630	-10.49	-13.59	-21.03	-24.62
631	4.827027	4.145714	0.991228	631	-10.5	-13.59	-21.03	-24.62
632	4.827027	4.188571	0.991228	632	-10.52	-13.59	-21.03	-24.62
633	4.840541	4.231429	0.961988	633	-10.48	-13.57	-21.02	-24.61
634	4.881081	4.117143	0.903509	634	-10.48	-13.57	-21.02	-24.6
635	4.840541	4.06	0.918129	635	-10.49	-13.57	-21.02	-24.59
636	4.8	4.088571	0.947368	636	-10.51	-13.56	-21.02	-24.59
637	4.786486	4.131429	0.947368	637	-10.48	-13.55	-21.01	-24.57
638	4.759459	4.074286	0.918129	638	-10.45	-13.54	-21	-24.56
639	4.759459	4.06	0.845029	639	-10.48	-13.54	-21	-24.56
640	4.705405	3.931429	0.874269	640	-10.5	-13.55	-21.01	-24.56
641	4.624324	3.917143	0.845029	641	-10.48	-13.54	-21.02	-24.55
642	4.610811	3.931429	0.80117	642	-10.45	-13.54	-21.01	-24.54
643	4.597297	3.888571	0.72807	643	-10.45	-13.53	-21	-24.54
644	4.597297	3.917143	0.72807	644	-10.46	-13.52	-20.99	-24.53
645	4.57027	3.888571	0.72807	645	-10.47	-13.52	-21	-24.53
646	4.57027	3.874286	0.72807	646	-10.47	-13.52	-21	-24.52
647	4.556757	3.817143	0.75731	647	-10.45	-13.51	-20.99	-24.51
648	4.489189	3.802857	0.654971	648	-10.44	-13.5	-21	-24.51
649	4.489189	3.731429	0.552632	649	-10.44	-13.49	-20.99	-24.5
650	4.462162	3.66	0.581871	650	-10.46	-13.5	-21	-24.5
651	4.421622	3.645714	0.581871	651	-10.47	-13.49	-21	-24.5
652	4.408108	3.645714	0.508772	652	-10.44	-13.49	-21	-24.49
653	4.340541	3.602857	0.464912	653	-10.43	-13.48	-20.99	-24.48
654	4.3	3.545714	0.435673	654	-10.47	-13.48	-20.99	-24.48
655	4.272973	3.588571	0.406433	655	-10.47	-13.47	-20.99	-24.47
656	4.259459	3.545714	0.435673	656	-10.42	-13.46	-20.98	-24.46
657	4.232432	3.56	0.347953	657	-10.44	-13.46	-20.97	-24.46
658	4.218919	3.574286	0.318713	658	-10.47	-13.46	-20.98	-24.45
659	4.191892	3.588571	0.304094	659	-10.42	-13.44	-20.96	-24.43
660	4.191892	3.517143	0.274854	660	-10.4	-13.43	-20.95	-24.42

661	4.137838	3.445714	0.216374	661	-10.43	-13.42	-20.94	-24.41
662	4.164865	3.388571	0.216374	662	-10.44	-13.43	-20.97	-24.42
663	4.164865	3.331429	0.333333	663	-10.4	-13.41	-20.96	-24.4
664	4.110811	3.274286	0.260234	664	-10.39	-13.4	-20.94	-24.39
665	4.097297	3.26	0.187135	665	-10.4	-13.4	-20.94	-24.39
666	4.056757	3.274286	0.114035	666	-10.43	-13.4	-20.95	-24.39
667	4.016216	3.302857	0.128655	667	-10.4	-13.39	-20.94	-24.38
668	4.002703	3.302857	0.055556	668	-10.39	-13.39	-20.94	-24.37
669	3.989189	3.274286	0.011696	669	-10.39	-13.39	-20.94	-24.37
670	3.948649	3.188571	0.040936	670	-10.4	-13.38	-20.93	-24.36
671	3.881081	3.117143	0.011696	671	-10.41	-13.37	-20.94	-24.36
672	3.854054	3.06	0.046784	672	-10.37	-13.36	-20.92	-24.34
673	3.8	2.988571	0.032164	673	-10.37	-13.35	-20.91	-24.33
674	3.745946	2.945714	0.090643	674	-10.38	-13.35	-20.91	-24.33
675	3.718919	2.945714	0.178363	675	-10.41	-13.35	-20.92	-24.33
676	3.705405	2.902857	0.149123	676	-10.36	-13.34	-20.91	-24.32
677	3.651351	2.86	0.178363	677	-10.37	-13.34	-20.92	-24.32
678	3.624324	2.831429	0.280702	678	-10.37	-13.34	-20.92	-24.32
679	3.597297	2.802857	0.309942	679	-10.41	-13.34	-20.92	-24.32
680	3.543243	2.831429	0.309942	680	-10.38	-13.33	-20.93	-24.31
681	3.52973	2.731429	0.324561	681	-10.35	-13.32	-20.92	-24.3
682	3.502703	2.66	0.397661	682	-10.36	-13.32	-20.92	-24.3
683	3.448649	2.631429	0.426901	683	-10.4	-13.32	-20.92	-24.3
684	3.381081	2.66	0.47076	684	-10.36	-13.31	-20.92	-24.28
685	3.354054	2.66	0.48538	685	-10.34	-13.3	-20.92	-24.28
686	3.340541	2.574286	0.48538	686	-10.37	-13.3	-20.91	-24.28
687	3.313514	2.531429	0.54386	687	-10.38	-13.3	-20.92	-24.28
688	3.232432	2.502857	0.616959	688	-10.36	-13.3	-20.92	-24.27
689	3.178378	2.517143	0.55848	689	-10.34	-13.29	-20.91	-24.26
690	3.178378	2.531429	0.631579	690	-10.34	-13.27	-20.89	-24.25
691	3.124324	2.474286	0.690058	691	-10.35	-13.27	-20.9	-24.25
692	3.07027	2.417143	0.748538	692	-10.36	-13.26	-20.89	-24.24
693	3.02973	2.274286	0.777778	693	-10.32	-13.26	-20.89	-24.23
694	2.948649	2.245714	0.792398	694	-10.33	-13.26	-20.89	-24.23
695	2.948649	2.217143	0.850877	695	-10.33	-13.25	-20.88	-24.22
696	2.908108	2.231429	0.953216	696	-10.37	-13.25	-20.89	-24.23
697	2.921622	2.174286	1.026316	697	-10.32	-13.25	-20.9	-24.22
698	2.881081	2.131429	0.997076	698	-10.31	-13.24	-20.89	-24.21
699	2.881081	2.117143	0.938596	699	-10.32	-13.23	-20.89	-24.21
700	2.813514	2.117143	0.953216	700	-10.36	-13.23	-20.89	-24.21
701	2.772973	2.074286	1.011696	701	-10.31	-13.23	-20.88	-24.21
702	2.732432	2.017143	1.070175	702	-10.31	-13.21	-20.87	-24.2
703	2.678378	1.945714	1.172515	703	-10.32	-13.21	-20.87	-24.19
704	2.664865	1.931429	1.187135	704	-10.32	-13.2	-20.87	-24.19
705	2.678378	1.902857	1.201754	705	-10.3	-13.2	-20.87	-24.18

706	2.597297	1.831429	1.230994	706	-10.28	-13.19	-20.86	-24.17
707	2.52973	1.917143	1.230994	707	-10.28	-13.19	-20.85	-24.17
708	2.516216	1.86	1.318713	708	-10.31	-13.19	-20.86	-24.17
709	2.489189	1.76	1.304094	709	-10.31	-13.18	-20.85	-24.16
710	2.448649	1.688571	1.289474	710	-10.28	-13.17	-20.84	-24.15
711	2.408108	1.688571	1.377193	711	-10.3	-13.16	-20.83	-24.14
712	2.367568	1.702857	1.391813	712	-10.31	-13.17	-20.84	-24.14
713	2.313514	1.645714	1.406433	713	-10.27	-13.16	-20.84	-24.14
714	2.313514	1.56	1.494152	714	-10.26	-13.15	-20.83	-24.12
715	2.286486	1.56	1.538012	715	-10.26	-13.15	-20.83	-24.12
716	2.218919	1.574286	1.479532	716	-10.31	-13.15	-20.83	-24.13
717	2.218919	1.56	1.494152	717	-10.29	-13.15	-20.84	-24.12
718	2.178378	1.545714	1.581871	718	-10.25	-13.14	-20.82	-24.11
719	2.137838	1.474286	1.625731	719	-10.28	-13.13	-20.81	-24.11
720	2.110811	1.445714	1.69883	720	-10.3	-13.13	-20.82	-24.11
721	2.124324	1.388571	1.75731	721	-10.25	-13.12	-20.82	-24.1
722	2.151351	1.374286	1.71345	722	-10.25	-13.11	-20.81	-24.09
723	2.097297	1.345714	1.72807	723	-10.26	-13.1	-20.8	-24.08
724	2.056757	1.374286	1.80117	724	-10.29	-13.11	-20.81	-24.08
725	1.989189	1.317143	1.815789	725	-10.25	-13.1	-20.81	-24.08
726	1.908108	1.274286	1.80117	726	-10.24	-13.1	-20.8	-24.08
727	1.921622	1.217143	1.78655	727	-10.26	-13.1	-20.81	-24.07
728	1.867568	1.174286	1.80117	728	-10.27	-13.09	-20.81	-24.07
729	1.867568	1.188571	1.888889	729	-10.27	-13.09	-20.81	-24.07
730	1.827027	1.16	1.932749	730	-10.23	-13.08	-20.8	-24.05
731	1.813514	1.131429	1.947368	731	-10.25	-13.08	-20.8	-24.06
732	1.772973	1.145714	2.005848	732	-10.25	-13.07	-20.79	-24.05
733	1.691892	1.088571	1.932749	733	-10.25	-13.06	-20.79	-24.04
734	1.651351	1.074286	1.947368	734	-10.26	-13.06	-20.79	-24.04
735	1.624324	1.017143	2.005848	735	-10.24	-13.05	-20.78	-24.03
736	1.651351	0.974286	2.049708	736	-10.21	-13.04	-20.77	-24.02
737	1.651351	0.931429	2.049708	737	-10.26	-13.04	-20.77	-24.02
738	1.57027	0.917143	2.078947	738	-10.24	-13.04	-20.78	-24.02
739	1.597297	0.874286	2.108187	739	-10.23	-13.04	-20.79	-24.02
740	1.57027	0.874286	2.122807	740	-10.22	-13.03	-20.78	-24.01
741	1.543243	0.845714	2.181287	741	-10.27	-13.03	-20.78	-24.02
742	1.489189	0.817143	2.225146	742	-10.24	-13.03	-20.79	-24.02
743	1.462162	0.774286	2.210526	743	-10.22	-13.03	-20.79	-24.01
744	1.448649	0.774286	2.195906	744	-10.23	-13.03	-20.79	-24.01
745	1.489189	0.717143	2.269006	745	-10.26	-13.02	-20.79	-24.01
746	1.489189	0.731429	2.327485	746	-10.24	-13.01	-20.78	-23.99
747	1.435135	0.702857	2.342105	747	-10.2	-13	-20.77	-23.99
748	1.408108	0.66	2.356725	748	-10.22	-13	-20.77	-23.99
749	1.394595	0.645714	2.356725	749	-10.26	-13	-20.76	-23.98
750	1.340541	0.617143	2.385965	750	-10.21	-12.99	-20.76	-23.98

751	1.354054	0.617143	2.488304	751	-10.22	-12.99	-20.76	-23.98
752	1.313514	0.617143	2.459064	752	-10.21	-12.99	-20.76	-23.98
753	1.354054	0.588571	2.473684	753	-10.24	-12.98	-20.77	-23.97
754	1.313514	0.517143	2.488304	754	-10.23	-12.98	-20.77	-23.96
755	1.259459	0.531429	2.459064	755	-10.21	-12.97	-20.78	-23.96
756	1.218919	0.56	2.459064	756	-10.19	-12.97	-20.77	-23.96
757	1.205405	0.545714	2.502924	757	-10.21	-12.96	-20.77	-23.96
758	1.205405	0.502857	2.546784	758	-10.26	-12.97	-20.78	-23.97
759	1.178378	0.488571	2.634503	759	-10.21	-12.96	-20.78	-23.96
760	1.137838	0.46	2.605263	760	-10.2	-12.95	-20.78	-23.95
761	1.178378	0.417143	2.590643	761	-10.21	-12.95	-20.77	-23.95
762	1.110811	0.417143	2.619883	762	-10.24	-12.94	-20.77	-23.95
763	1.002703	0.345714	2.605263	763	-10.21	-12.94	-20.77	-23.94
764	0.989189	0.374286	2.663743	764	-10.19	-12.93	-20.78	-23.94
765	0.975676	0.388571	2.649123	765	-10.2	-12.93	-20.78	-23.94
766	1.002703	0.317143	2.678363	766	-10.21	-12.93	-20.78	-23.94
767	1.002703	0.274286	2.663743	767	-10.22	-12.92	-20.78	-23.94
768	1.002703	0.274286	2.707602	768	-10.22	-12.92	-20.78	-23.94
769	0.975676	0.288571	2.751462	769	-10.19	-12.92	-20.78	-23.94
770	0.975676	0.274286	2.722222	770	-10.21	-12.92	-20.77	-23.94
771	0.921622	0.231429	2.751462	771	-10.23	-12.92	-20.78	-23.94
772	0.881081	0.188571	2.780702	772	-10.2	-12.92	-20.77	-23.94
773	0.867568	0.188571	2.736842	773	-10.19	-12.91	-20.77	-23.94
774	0.867568	0.174286	2.751462	774	-10.21	-12.9	-20.76	-23.93
775	0.867568	0.16	2.766082	775	-10.22	-12.91	-20.77	-23.93
776	0.867568	0.117143	2.766082	776	-10.19	-12.9	-20.77	-23.93
777	0.827027	0.16	2.795322	777	-10.18	-12.9	-20.76	-23.92
778	0.827027	0.131429	2.883041	778	-10.21	-12.9	-20.76	-23.92
779	0.840541	0.074286	2.883041	779	-10.22	-12.9	-20.77	-23.92
780	0.827027	0.102857	2.853801	780	-10.2	-12.89	-20.76	-23.91
781	0.8	0.074286	2.883041	781	-10.17	-12.88	-20.75	-23.9
782	0.759459	0.074286	2.897661	782	-10.19	-12.88	-20.75	-23.9
783	0.732432	0.06	2.912281	783	-10.22	-12.87	-20.75	-23.9
784	0.718919	0.017143	2.926901	784	-10.17	-12.87	-20.74	-23.89
785	0.732432	0.025714	2.926901	785	-10.17	-12.86	-20.74	-23.89
786	0.691892	0.011429	2.94152	786	-10.17	-12.86	-20.74	-23.89
787	0.705405	0.068571	3.01462	787	-10.21	-12.87	-20.74	-23.89
788	0.651351	0.054286	3	788	-10.19	-12.86	-20.74	-23.88
789	0.624324	0.025714	3.04386	789	-10.16	-12.84	-20.73	-23.87
790	0.624324	0.025714	3.073099	790	-10.15	-12.85	-20.73	-23.87
791	0.610811	0.04	3.04386	791	-10.16	-12.84	-20.72	-23.86
792	0.57027	0.068571	3.073099	792	-10.19	-12.84	-20.73	-23.87
793	0.597297	0.111429	3.116959	793	-10.17	-12.83	-20.72	-23.86
794	0.583784	0.082857	3.131579	794	-10.16	-12.83	-20.72	-23.86
795	0.556757	0.082857	3.131579	795	-10.19	-12.83	-20.72	-23.86

796	0.543243	0.125714	3.116959	796	-10.18	-12.83	-20.72	-23.86
797	0.502703	0.168571	3.116959	797	-10.16	-12.83	-20.72	-23.86
798	0.543243	0.154286	3.175439	798	-10.16	-12.83	-20.72	-23.86
799	0.543243	0.182857	3.073099	799	-10.18	-12.82	-20.72	-23.85
800	0.52973	0.182857	3.131579	800	-10.18	-12.82	-20.72	-23.85
801	0.52973	0.182857	3.204678	801	-10.15	-12.81	-20.71	-23.84
802	0.502703	0.211429	3.190058	802	-10.15	-12.81	-20.71	-23.84
803	0.421622	0.211429	3.204678	803	-10.16	-12.81	-20.7	-23.84
804	0.421622	0.282857	3.263158	804	-10.18	-12.81	-20.71	-23.84
805	0.421622	0.282857	3.219298	805	-10.18	-12.81	-20.72	-23.84
806	0.408108	0.311429	3.248538	806	-10.15	-12.8	-20.72	-23.83
807	0.367568	0.34	3.292398	807	-10.14	-12.79	-20.71	-23.82
808	0.408108	0.34	3.307018	808	-10.15	-12.79	-20.71	-23.82
809	0.354054	0.297143	3.233918	809	-10.18	-12.8	-20.71	-23.83
810	0.327027	0.382857	3.248538	810	-10.17	-12.79	-20.71	-23.82
811	0.313514	0.354286	3.263158	811	-10.15	-12.79	-20.72	-23.82
812	0.327027	0.382857	3.350877	812	-10.13	-12.78	-20.71	-23.81
813	0.327027	0.397143	3.380117	813	-10.18	-12.79	-20.71	-23.82
814	0.313514	0.354286	3.336257	814	-10.19	-12.78	-20.71	-23.82
815	0.3	0.368571	3.380117	815	-10.14	-12.77	-20.71	-23.81
816	0.245946	0.397143	3.394737	816	-10.15	-12.76	-20.7	-23.8
817	0.245946	0.482857	3.409357	817	-10.16	-12.76	-20.71	-23.81
818	0.205405	0.511429	3.380117	818	-10.18	-12.76	-20.71	-23.81
819	0.232432	0.511429	3.365497	819	-10.13	-12.75	-20.71	-23.8
820	0.205405	0.525714	3.380117	820	-10.14	-12.75	-20.7	-23.8
821	0.191892	0.568571	3.409357	821	-10.15	-12.75	-20.7	-23.8
822	0.164865	0.582857	3.453216	822	-10.16	-12.75	-20.7	-23.8
823	0.137838	0.582857	3.511696	823	-10.12	-12.73	-20.68	-23.78
824	0.137838	0.582857	3.511696	824	-10.14	-12.74	-20.69	-23.79
825	0.137838	0.554286	3.423977	825	-10.17	-12.74	-20.69	-23.79
826	0.151351	0.54	3.453216	826	-10.15	-12.74	-20.7	-23.79
827	0.137838	0.568571	3.540936	827	-10.12	-12.73	-20.69	-23.78
828	0.124324	0.597143	3.570175	828	-10.14	-12.73	-20.68	-23.78
829	0.083784	0.654286	3.599415	829	-10.15	-12.73	-20.69	-23.78
830	0.110811	0.625714	3.570175	830	-10.14	-12.72	-20.69	-23.78
831	0.083784	0.611429	3.540936	831	-10.12	-12.72	-20.68	-23.77
832	0.02973	0.64	3.599415	832	-10.11	-12.71	-20.68	-23.77
833	0.016216	0.625714	3.599415	833	-10.13	-12.71	-20.68	-23.77
834	0.010811	0.582857	3.599415	834	-10.15	-12.71	-20.68	-23.77
835	0.051351	0.654286	3.628655	835	-10.11	-12.71	-20.68	-23.77
836	0.024324	0.697143	3.657895	836	-10.11	-12.71	-20.68	-23.77
837	0.024324	0.725714	3.657895	837	-10.13	-12.71	-20.67	-23.77
838	0.002703	0.754286	3.687135	838	-10.16	-12.71	-20.69	-23.77
839	0.037838	0.754286	3.701754	839	-10.1	-12.7	-20.68	-23.76
840	0.024324	0.782857	3.687135	840	-10.11	-12.7	-20.68	-23.76

841	0.051351	0.782857	3.730994	841	-10.12	-12.7	-20.67	-23.75
842	0.105405	0.782857	3.716374	842	-10.13	-12.7	-20.68	-23.75
843	0.145946	0.754286	3.672515	843	-10.12	-12.69	-20.67	-23.75
844	0.159459	0.768571	3.657895	844	-10.11	-12.7	-20.67	-23.75
845	0.159459	0.811429	3.701754	845	-10.11	-12.7	-20.67	-23.75
846	0.159459	0.754286	3.774854	846	-10.16	-12.7	-20.68	-23.76
847	0.132432	0.782857	3.745614	847	-10.13	-12.7	-20.68	-23.75
848	0.159459	0.825714	3.716374	848	-10.1	-12.69	-20.67	-23.74
849	0.159459	0.84	3.774854	849	-10.1	-12.68	-20.66	-23.73
850	0.186486	0.84	3.760234	850	-10.14	-12.69	-20.66	-23.74
851	0.213514	0.897143	3.818713	851	-10.13	-12.69	-20.66	-23.73
852	0.240541	0.94	3.847953	852	-10.1	-12.68	-20.65	-23.73
853	0.240541	0.911429	3.847953	853	-10.12	-12.68	-20.65	-23.72
854	0.240541	0.911429	3.804094	854	-10.14	-12.68	-20.65	-23.73
855	0.281081	0.897143	3.818713	855	-10.1	-12.67	-20.65	-23.72
856	0.267568	0.925714	3.833333	856	-10.08	-12.66	-20.64	-23.71
857	0.240541	0.94	3.847953	857	-10.11	-12.66	-20.65	-23.72
858	0.281081	0.982857	3.877193	858	-10.14	-12.66	-20.65	-23.72
859	0.254054	0.982857	3.891813	859	-10.11	-12.67	-20.65	-23.72
860	0.294595	0.982857	3.979532	860	-10.09	-12.66	-20.65	-23.71
861	0.335135	1.054286	3.964912	861	-10.12	-12.66	-20.65	-23.72
862	0.362162	1.04	3.950292	862	-10.13	-12.66	-20.66	-23.72
863	0.348649	1.04	3.979532	863	-10.12	-12.66	-20.66	-23.72
864	0.321622	1.068571	4.008772	864	-10.1	-12.65	-20.65	-23.71
865	0.348649	1.082857	3.950292	865	-10.11	-12.64	-20.65	-23.7
866	0.375676	1.097143	3.921053	866	-10.14	-12.64	-20.65	-23.71
867	0.348649	1.14	3.979532	867	-10.11	-12.64	-20.66	-23.7
868	0.389189	1.168571	3.994152	868	-10.08	-12.64	-20.66	-23.7
869	0.42973	1.182857	4.008772	869	-10.1	-12.64	-20.66	-23.7
870	0.456757	1.154286	4.023392	870	-10.11	-12.64	-20.66	-23.7
871	0.416216	1.14	4.038012	871	-10.14	-12.64	-20.67	-23.7
872	0.42973	1.125714	4.052632	872	-10.1	-12.63	-20.66	-23.7
873	0.42973	1.197143	4.081871	873	-10.09	-12.63	-20.67	-23.7
874	0.456757	1.168571	4.096491	874	-10.12	-12.63	-20.67	-23.7
875	0.483784	1.182857	4.081871	875	-10.14	-12.63	-20.67	-23.71
876	0.524324	1.225714	4.038012	876	-10.11	-12.63	-20.67	-23.7
877	0.564865	1.225714	4.096491	877	-10.09	-12.62	-20.67	-23.7
878	0.564865	1.211429	4.111111	878	-10.14	-12.64	-20.68	-23.71
879	0.551351	1.197143	4.096491	879	-10.14	-12.64	-20.69	-23.71
880	0.510811	1.211429	4.125731	880	-10.1	-12.62	-20.68	-23.7
881	0.551351	1.211429	4.169591	881	-10.1	-12.62	-20.67	-23.7
882	0.564865	1.197143	4.125731	882	-10.15	-12.63	-20.68	-23.71
883	0.551351	1.211429	4.169591	883	-10.12	-12.62	-20.68	-23.7
884	0.537838	1.225714	4.19883	884	-10.09	-12.61	-20.67	-23.69
885	0.564865	1.24	4.154971	885	-10.11	-12.61	-20.67	-23.69

886	0.551351	1.24	4.19883	886	-10.13	-12.62	-20.68	-23.7
887	0.551351	1.282857	4.19883	887	-10.14	-12.62	-20.68	-23.7
888	0.578378	1.297143	4.19883	888	-10.11	-12.62	-20.69	-23.7
889	0.591892	1.354286	4.22807	889	-10.11	-12.61	-20.68	-23.7
890	0.618919	1.297143	4.19883	890	-10.13	-12.61	-20.68	-23.7
891	0.632432	1.354286	4.19883	891	-10.13	-12.6	-20.68	-23.69
892	0.659459	1.368571	4.22807	892	-10.08	-12.59	-20.67	-23.68
893	0.672973	1.354286	4.25731	893	-10.1	-12.6	-20.68	-23.69
894	0.713514	1.34	4.30117	894	-10.14	-12.61	-20.68	-23.7
895	0.686486	1.397143	4.330409	895	-10.15	-12.62	-20.69	-23.71
896	0.659459	1.382857	4.315789	896	-10.11	-12.6	-20.68	-23.69
897	0.7	1.425714	4.330409	897	-10.1	-12.59	-20.68	-23.68
898	0.7	1.382857	4.28655	898	-10.13	-12.6	-20.68	-23.69
899	0.713514	1.454286	4.28655	899	-10.14	-12.6	-20.69	-23.69
900	0.740541	1.497143	4.359649	900	-10.11	-12.6	-20.69	-23.69
901	0.740541	1.468571	4.28655	901	-10.1	-12.6	-20.69	-23.69
902	0.754054	1.382857	4.30117	902	-10.12	-12.6	-20.69	-23.69
903	0.767568	1.368571	4.330409	903	-10.14	-12.6	-20.69	-23.69
904	0.808108	1.454286	4.403509	904	-10.11	-12.59	-20.68	-23.68
905	0.808108	1.525714	4.359649	905	-10.09	-12.59	-20.68	-23.68
906	0.713514	1.511429	4.330409	906	-10.12	-12.58	-20.67	-23.68
907	0.727027	1.511429	4.359649	907	-10.12	-12.58	-20.67	-23.67
908	0.794595	1.497143	4.403509	908	-10.1	-12.57	-20.67	-23.67
909	0.821622	1.568571	4.403509	909	-10.09	-12.57	-20.67	-23.67
910	0.835135	1.554286	4.374269	910	-10.12	-12.58	-20.68	-23.68
911	0.835135	1.554286	4.359649	911	-10.14	-12.58	-20.67	-23.67
912	0.848649	1.582857	4.359649	912	-10.09	-12.57	-20.67	-23.66
913	0.821622	1.568571	4.374269	913	-10.1	-12.58	-20.68	-23.67
914	0.821622	1.554286	4.403509	914	-10.1	-12.57	-20.68	-23.67
915	0.862162	1.554286	4.403509	915	-10.15	-12.58	-20.68	-23.68
916	0.821622	1.582857	4.418129	916	-10.11	-12.57	-20.67	-23.67
917	0.808108	1.654286	4.461988	917	-10.09	-12.57	-20.67	-23.66
918	0.835135	1.64	4.461988	918	-10.09	-12.57	-20.67	-23.66
919	0.902703	1.611429	4.447368	919	-10.12	-12.57	-20.67	-23.66
920	0.92973	1.697143	4.447368	920	-10.13	-12.57	-20.68	-23.67
921	0.92973	1.711429	4.403509	921	-10.1	-12.57	-20.68	-23.67
922	0.889189	1.711429	4.447368	922	-10.13	-12.58	-20.68	-23.68
923	0.916216	1.711429	4.447368	923	-10.13	-12.58	-20.69	-23.67
924	0.916216	1.654286	4.461988	924	-10.11	-12.57	-20.68	-23.67
925	0.916216	1.654286	4.476608	925	-10.09	-12.56	-20.66	-23.66
926	0.943243	1.682857	4.432749	926	-10.12	-12.56	-20.67	-23.66
927	0.956757	1.682857	4.461988	927	-10.14	-12.58	-20.69	-23.67
928	0.943243	1.654286	4.520468	928	-10.11	-12.57	-20.68	-23.67
929	0.943243	1.668571	4.520468	929	-10.11	-12.57	-20.68	-23.67
930	0.997297	1.74	4.505848	930	-10.12	-12.57	-20.68	-23.67

931	1.024324	1.754286	4.505848	931	-10.14	-12.56	-20.67	-23.66
932	0.983784	1.682857	4.535088	932	-10.11	-12.55	-20.68	-23.66
933	0.997297	1.725714	4.535088	933	-10.08	-12.55	-20.67	-23.65
934	0.997297	1.797143	4.491228	934	-10.1	-12.55	-20.67	-23.65
935	1.010811	1.797143	4.505848	935	-10.14	-12.55	-20.67	-23.66
936	0.983784	1.768571	4.535088	936	-10.12	-12.55	-20.67	-23.65
937	0.997297	1.768571	4.622807	937	-10.1	-12.55	-20.67	-23.65
938	1.024324	1.797143	4.564327	938	-10.08	-12.55	-20.67	-23.65
939	1.024324	1.84	4.608187	939	-10.09	-12.55	-20.67	-23.65
940	0.997297	1.84	4.578947	940	-10.12	-12.54	-20.66	-23.65
941	1.051351	1.782857	4.549708	941	-10.13	-12.55	-20.67	-23.65
942	1.051351	1.811429	4.549708	942	-10.1	-12.54	-20.67	-23.64
943	1.064865	1.84	4.505848	943	-10.1	-12.55	-20.68	-23.65
944	1.078378	1.84	4.578947	944	-10.09	-12.54	-20.67	-23.64
945	1.091892	1.825714	4.593567	945	-10.11	-12.54	-20.66	-23.64
946	1.051351	1.782857	4.652047	946	-10.14	-12.55	-20.67	-23.65
947	1.105405	1.811429	4.652047	947	-10.1	-12.54	-20.68	-23.65
948	1.105405	1.882857	4.681287	948	-10.09	-12.54	-20.68	-23.65
949	1.132432	1.882857	4.608187	949	-10.09	-12.53	-20.66	-23.64
950	1.172973	1.868571	4.622807	950	-10.14	-12.54	-20.66	-23.65
951	1.132432	1.868571	4.608187	951	-10.1	-12.53	-20.67	-23.64
952	1.145946	1.897143	4.608187	952	-10.09	-12.53	-20.66	-23.64
953	1.159459	1.897143	4.593567	953	-10.13	-12.54	-20.67	-23.65
954	1.145946	1.868571	4.652047	954	-10.12	-12.54	-20.68	-23.65
955	1.172973	1.911429	4.652047	955	-10.09	-12.53	-20.66	-23.64
956	1.2	1.882857	4.666667	956	-10.08	-12.53	-20.66	-23.64
957	1.172973	1.868571	4.652047	957	-10.12	-12.53	-20.67	-23.64
958	1.172973	1.897143	4.681287	958	-10.13	-12.54	-20.68	-23.65
959	1.2	1.925714	4.652047	959	-10.09	-12.53	-20.67	-23.64
960	1.213514	1.897143	4.652047	960	-10.09	-12.53	-20.67	-23.63
961	1.240541	1.911429	4.681287	961	-10.12	-12.53	-20.66	-23.64
962	1.227027	1.925714	4.608187	962	-10.11	-12.53	-20.67	-23.64
963	1.267568	1.925714	4.652047	963	-10.09	-12.52	-20.67	-23.64
964	1.254054	1.925714	4.666667	964	-10.12	-12.52	-20.66	-23.63
965	1.2	1.968571	4.725146	965	-10.1	-12.52	-20.66	-23.63
966	1.227027	1.982857	4.710526	966	-10.07	-12.51	-20.65	-23.63
967	1.227027	2.011429	4.681287	967	-10.09	-12.52	-20.65	-23.63
968	1.240541	2.011429	4.710526	968	-10.12	-12.52	-20.67	-23.64
969	1.254054	1.982857	4.769006	969	-10.12	-12.53	-20.67	-23.64
970	1.240541	2.04	4.754386	970	-10.08	-12.52	-20.67	-23.64
971	1.294595	2.011429	4.710526	971	-10.09	-12.52	-20.67	-23.63
972	1.294595	1.997143	4.695906	972	-10.14	-12.52	-20.67	-23.64
973	1.281081	2.025714	4.754386	973	-10.11	-12.52	-20.67	-23.63
974	1.294595	1.954286	4.754386	974	-10.08	-12.51	-20.66	-23.63
975	1.294595	1.954286	4.739766	975	-10.08	-12.51	-20.65	-23.62

976	1.294595	1.982857	4.710526	976	-10.13	-12.51	-20.66	-23.63
977	1.281081	2.025714	4.783626	977	-10.09	-12.51	-20.65	-23.62
978	1.308108	2.04	4.783626	978	-10.09	-12.51	-20.66	-23.63
979	1.321622	2.011429	4.842105	979	-10.08	-12.51	-20.66	-23.62
980	1.308108	1.968571	4.827485	980	-10.11	-12.51	-20.66	-23.62
981	1.294595	2.025714	4.754386	981	-10.11	-12.5	-20.66	-23.61
982	1.335135	2.025714	4.783626	982	-10.08	-12.5	-20.66	-23.62
983	1.348649	2.04	4.856725	983	-10.07	-12.5	-20.65	-23.62
984	1.335135	2.04	4.827485	984	-10.12	-12.51	-20.66	-23.63
985	1.362162	2.054286	4.812865	985	-10.12	-12.51	-20.67	-23.63
986	1.348649	1.982857	4.871345	986	-10.09	-12.51	-20.67	-23.63
987	1.321622	2.054286	4.915205	987	-10.08	-12.51	-20.67	-23.63
988	1.321622	2.04	4.842105	988	-10.1	-12.51	-20.66	-23.63
989	1.362162	2.011429	4.827485	989	-10.13	-12.5	-20.66	-23.62
990	1.375676	2.068571	4.871345	990	-10.09	-12.5	-20.66	-23.62
991	1.389189	2.054286	4.915205	991	-10.08	-12.5	-20.67	-23.62
992	1.389189	2.04	4.900585	992	-10.08	-12.5	-20.66	-23.62
993	1.416216	2.082857	4.885965	993	-10.12	-12.5	-20.66	-23.62
994	1.402703	2.068571	4.929825	994	-10.11	-12.5	-20.66	-23.61
995	1.416216	2.082857	4.915205	995	-10.08	-12.5	-20.67	-23.61
996	1.42973	2.082857	4.900585	996	-10.07	-12.5	-20.66	-23.61
997	1.456757	2.14	4.929825	997	-10.12	-12.5	-20.66	-23.62
998	1.443243	2.168571	4.900585	998	-10.11	-12.5	-20.67	-23.61
999	1.389189	2.097143	4.915205	999	-10.08	-12.5	-20.66	-23.61
1000	1.389189	2.097143	4.915205	1000	-10.09	-12.5	-20.66	-23.61
1001	1.483784	2.14	4.871345	1001	-10.09	-12.49	-20.66	-23.61
1002	1.42973	2.154286	4.944444	1002	-10.11	-12.49	-20.65	-23.6
1003	1.42973	2.14	4.900585	1003	-10.11	-12.5	-20.66	-23.61
1004	1.456757	2.182857	4.944444	1004	-10.07	-12.49	-20.65	-23.6
1005	1.47027	2.168571	4.944444	1005	-10.07	-12.49	-20.65	-23.6
1006	1.443243	2.182857	4.915205	1006	-10.1	-12.49	-20.65	-23.6
1007	1.456757	2.168571	4.959064	1007	-10.11	-12.48	-20.65	-23.6
1008	1.47027	2.182857	4.973684	1008	-10.09	-12.48	-20.65	-23.59
1009	1.456757	2.211429	4.973684	1009	-10.06	-12.47	-20.64	-23.59
1010	1.47027	2.197143	4.929825	1010	-10.07	-12.48	-20.64	-23.59
1011	1.510811	2.211429	4.944444	1011	-10.1	-12.48	-20.65	-23.6
1012	1.483784	2.182857	4.885965	1012	-10.1	-12.48	-20.64	-23.59
1013	1.524324	2.24	4.915205	1013	-10.07	-12.47	-20.64	-23.59
1014	1.537838	2.225714	4.988304	1014	-10.08	-12.47	-20.64	-23.59
1015	1.497297	2.282857	5.002924	1015	-10.11	-12.48	-20.64	-23.59
1016	1.483784	2.24	4.959064	1016	-10.11	-12.48	-20.65	-23.6
1017	1.510811	2.182857	4.900585	1017	-10.06	-12.47	-20.64	-23.59
1018	1.510811	2.154286	4.959064	1018	-10.08	-12.48	-20.64	-23.59
1019	1.524324	2.211429	4.885965	1019	-10.11	-12.48	-20.65	-23.6
1020	1.510811	2.225714	4.944444	1020	-10.1	-12.48	-20.66	-23.6

1021	1.497297	2.24	4.959064	1021	-10.07	-12.47	-20.65	-23.59
1022	1.483784	2.211429	4.959064	1022	-10.07	-12.47	-20.64	-23.59
1023	1.483784	2.24	5.032164	1023	-10.08	-12.47	-20.64	-23.59
1024	1.483784	2.254286	5.002924	1024	-10.1	-12.47	-20.64	-23.58
1025	1.483784	2.254286	5.017544	1025	-10.09	-12.47	-20.65	-23.58
1026	1.524324	2.268571	5.032164	1026	-10.07	-12.46	-20.64	-23.58
1027	1.564865	2.297143	5.032164	1027	-10.06	-12.46	-20.64	-23.58
1028	1.537838	2.325714	5.002924	1028	-10.06	-12.46	-20.64	-23.58
1029	1.564865	2.282857	5.061404	1029	-10.12	-12.47	-20.64	-23.59
1030	1.564865	2.282857	5.061404	1030	-10.08	-12.46	-20.64	-23.58
1031	1.537838	2.254286	5.046784	1031	-10.06	-12.46	-20.63	-23.58
1032	1.578378	2.297143	5.076023	1032	-10.1	-12.47	-20.64	-23.59
1033	1.578378	2.268571	5.076023	1033	-10.1	-12.46	-20.64	-23.59
1034	1.605405	2.254286	5.046784	1034	-10.06	-12.45	-20.63	-23.57
1035	1.591892	2.297143	5.032164	1035	-10.06	-12.45	-20.63	-23.57
1036	1.578378	2.325714	5.090643	1036	-10.06	-12.45	-20.62	-23.57
1037	1.564865	2.325714	5.076023	1037	-10.1	-12.46	-20.63	-23.58
1038	1.537838	2.325714	5.090643	1038	-10.07	-12.46	-20.63	-23.57
1039	1.551351	2.368571	5.076023	1039	-10.05	-12.46	-20.62	-23.57
1040	1.551351	2.368571	5.119883	1040	-10.08	-12.45	-20.6	-23.57
1041	1.591892	2.354286	5.090643	1041	-10.1	-12.46	-20.61	-23.57
1042	1.591892	2.311429	5.105263	1042	-10.04	-12.45	-20.61	-23.56
1043	1.618919	2.368571	5.105263	1043	-10.06	-12.45	-20.61	-23.56
1044	1.618919	2.411429	5.134503	1044	-10.06	-12.45	-20.61	-23.56
1045	1.632432	2.311429	5.119883	1045	-10.08	-12.45	-20.61	-23.56
1046	1.645946	2.282857	5.105263	1046	-10.08	-12.45	-20.62	-23.56
1047	1.618919	2.34	5.119883	1047	-10.05	-12.46	-20.62	-23.56
1048	1.618919	2.354286	5.046784	1048	-10.07	-12.45	-20.6	-23.55
1049	1.605405	2.368571	5.090643	1049	-10.1	-12.45	-20.61	-23.55
1050	1.605405	2.368571	5.149123	1050	-10.05	-12.45	-20.61	-23.55
1051	1.645946	2.354286	5.119883	1051	-10.04	-12.45	-20.6	-23.55
1052	1.645946	2.354286	5.105263	1052	-10.09	-12.45	-20.59	-23.55
1053	1.618919	2.368571	5.105263	1053	-10.07	-12.45	-20.61	-23.55
1054	1.645946	2.411429	5.178363	1054	-10.05	-12.45	-20.6	-23.55
1055	1.672973	2.397143	5.192982	1055	-10.06	-12.46	-20.6	-23.55
1056	1.672973	2.411429	5.178363	1056	-10.08	-12.46	-20.61	-23.55
1057	1.672973	2.368571	5.178363	1057	-10.08	-12.45	-20.61	-23.55
1058	1.727027	2.382857	5.119883	1058	-10.05	-12.44	-20.6	-23.54
1059	1.7	2.382857	5.076023	1059	-10.05	-12.44	-20.6	-23.54
1060	1.713514	2.411429	5.119883	1060	-10.05	-12.44	-20.59	-23.54
1061	1.672973	2.425714	5.149123	1061	-10.09	-12.44	-20.58	-23.53
1062	1.672973	2.454286	5.178363	1062	-10.05	-12.44	-20.59	-23.53
1063	1.727027	2.482857	5.207602	1063	-10.04	-12.44	-20.59	-23.53
1064	1.7	2.511429	5.207602	1064	-10.03	-12.43	-20.58	-23.52
1065	1.659459	2.468571	5.178363	1065	-10.07	-12.44	-20.59	-23.53

1066	1.672973	2.44	5.134503	1066	-10.08	-12.44	-20.59	-23.53
1067	1.7	2.411429	5.163743	1067	-10.05	-12.44	-20.59	-23.53
1068	1.686486	2.482857	5.251462	1068	-10.03	-12.43	-20.59	-23.52
1069	1.713514	2.44	5.222222	1069	-10.06	-12.43	-20.58	-23.53
1070	1.754054	2.44	5.192982	1070	-10.09	-12.43	-20.59	-23.53
1071	1.767568	2.44	5.163743	1071	-10.04	-12.43	-20.59	-23.52
1072	1.767568	2.468571	5.192982	1072	-10.03	-12.43	-20.59	-23.53
1073	1.808108	2.525714	5.236842	1073	-10.07	-12.43	-20.59	-23.53
1074	1.808108	2.482857	5.222222	1074	-10.06	-12.42	-20.59	-23.52
1075	1.740541	2.468571	5.178363	1075	-10.05	-12.42	-20.59	-23.52
1076	1.713514	2.482857	5.149123	1076	-10.02	-12.42	-20.59	-23.52
1077	1.740541	2.497143	5.178363	1077	-10.05	-12.42	-20.59	-23.52
1078	1.781081	2.482857	5.280702	1078	-10.07	-12.43	-20.6	-23.53
1079	1.754054	2.482857	5.295322	1079	-10.07	-12.43	-20.61	-23.54
1080	1.727027	2.511429	5.280702	1080	-10.05	-12.43	-20.61	-23.53
1081	1.794595	2.54	5.236842	1081	-10.05	-12.43	-20.61	-23.54
1082	1.821622	2.554286	5.222222	1082	-10.09	-12.44	-20.61	-23.54
1083	1.781081	2.525714	5.192982	1083	-10.07	-12.44	-20.62	-23.55
1084	1.794595	2.454286	5.236842	1084	-10.05	-12.43	-20.61	-23.54

Control_exp_8

Experiment type: Control experiment. This experiment consisted of just JSC Mars-1, 2 cm thick, 363.45 g. There was not a humidity buffer inside the chamber. Chiller was set to -38°C.

Temperature around the sample was controlled by the chiller. Thermocouples stopped recording during the experiment.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= humidity buffer 3= atmosphere 4= sample

Mass Min.	Mass	RH Min.	Ch02	Ch03	Ch04	T Min.	Ch01	Ch02	Ch03	Ch04
0	387.91	0	1.091892	1.517143	1.538012	0	-2.89	-18.45	-18.77	-28.16
2	386.65	1	0.983784	1.731429	1.654971	1	-10.88	-18.4	-20.9	-29.16
4	386.77	2	1.024324	2.031429	1.932749	2	-19.11	-19.38	-25.48	-31.81
6	386.42	3	0.997297	2.545714	2.239766	3	-16.11	-20	-26.21	-30.94
8	386.29	4	0.848649	2.902857	2.415205	4	-14.19	-20.27	-25.28	-28.82
10	386.23	5	0.632432	2.745714	2.415205	5	-12.62	-20.37	-25.08	-27.85
12	386.17	6	0.402703	2.531429	2.488304	6	-12.94	-20.37	-25.09	-27.36

14	386.12	7	0.227027	2.402857	2.561404	7	-13	-20.29	-24.93	-27
16	386.08	8	0.145946	2.274286	2.663743	8	-12.46	-20.11	-24.86	-26.61
18	386.06	9	0.159459	2.031429	2.751462	9	-12.06	-19.88	-24.86	-26.25
20	386.07	10	0.240541	1.774286	2.824561	10	-11.81	-19.65	-24.85	-25.98
22	386.07	11	0.375676	1.531429	2.883041	11	-11.7	-19.42	-24.82	-25.81
24	386.06	12	0.483784	1.245714	2.926901	12	-11.65	-19.2	-24.79	-25.67
26	386.04	13	0.605405	1.017143	2.98538	13	-11.64	-19	-24.77	-25.56
28	386.05	14	0.713514	0.774286	3.04386	14	-11.63	-18.81	-24.77	-25.48
30	386.07	15	0.767568	0.517143	3.087719	15	-11.65	-18.63	-24.77	-25.41
32	386.07	16	0.835135	0.331429	3.146199	16	-11.65	-18.46	-24.78	-25.34
34	386.08	17	0.916216	0.131429	3.175439	17	-11.65	-18.29	-24.78	-25.28
36	386.07	18	0.983784	0.025714	3.190058	18	-11.66	-18.13	-24.78	-25.24
38	386.08	19	0.997297	0.082857	3.190058	19	-11.65	-17.98	-24.78	-25.18
40	386.14	20	1.037838	0.197143	3.190058	20	-11.65	-17.82	-24.78	-25.14
42	386.12	21	1.091892	0.354286	3.233918	21	-11.64	-17.67	-24.77	-25.08
44	386.11	22	1.105405	0.497143	3.277778	22	-11.64	-17.53	-24.78	-25.05
46	386.14	23	1.091892	0.582857	3.263158	23	-11.63	-17.38	-24.76	-25
48	386.14	24	1.172973	0.668571	3.277778	24	-11.61	-17.24	-24.75	-24.95
50	386.14	25	1.186486	0.754286	3.219298	25	-11.63	-17.11	-24.75	-24.91
52	386.15	26	1.159459	0.782857	3.233918	26	-11.61	-16.97	-24.74	-24.87
54	386.19	27	1.186486	0.84	3.248538	27	-11.61	-16.85	-24.73	-24.83
56	386.17	28	1.213514	0.982857	3.204678	28	-11.62	-16.73	-24.73	-24.8
58	386.19	29	1.186486	1.054286	3.219298	29	-11.61	-16.61	-24.72	-24.76
60	386.21	30	1.186486	1.054286	3.160819	30	-11.6	-16.5	-24.71	-24.73
62	386.22	31	1.159459	1.097143	3.102339	31	-11.6	-16.38	-24.7	-24.69
64	386.22	32	1.159459	1.125714	3.160819	32	-11.57	-16.27	-24.7	-24.65
66	386.23	33	1.132432	1.154286	3.087719	33	-11.57	-16.17	-24.69	-24.62
68	386.22	34	1.118919	1.168571	3.116959	34	-11.56	-16.06	-24.68	-24.58
70	386.24	35	1.078378	1.154286	3.175439	35	-11.54	-15.96	-24.67	-24.54
72	386.26	36	1.024324	1.225714	3.146199	36	-11.53	-15.85	-24.65	-24.5
74	386.25	37	1.037838	1.268571	3.102339	37	-11.51	-15.76	-24.65	-24.47
76	386.26	38	1.091892	1.297143	3.102339	38	-11.52	-15.66	-24.64	-24.44
78	386.29	39	1.105405	1.282857	3.073099	39	-11.51	-15.57	-24.63	-24.41
80	386.3	40	1.051351	1.268571	3.073099	40	-11.51	-15.47	-24.62	-24.37
82	386.29	41	1.024324	1.325714	3.02924	41	-11.49	-15.38	-24.61	-24.34
84	386.31	42	0.997297	1.311429	3.01462	42	-11.45	-15.29	-24.6	-24.3
86	386.31	43	0.956757	1.311429	2.94152	43	-11.43	-15.21	-24.59	-24.27
88	386.31	44	0.943243	1.297143	2.94152	44	-11.44	-15.12	-24.57	-24.24
90	386.34	45	0.92973	1.297143	2.98538	45	-11.44	-15.05	-24.57	-24.22
92	386.33	46	0.889189	1.354286	2.94152	46	-11.44	-14.96	-24.56	-24.19
94	386.35	47	0.916216	1.382857	2.912281	47	-11.4	-14.89	-24.55	-24.15
96	386.4	48	0.916216	1.34	2.98538	48	-11.38	-14.81	-24.55	-24.12
98	386.38	49	0.889189	1.34	2.97076	49	-11.37	-14.75	-24.54	-24.1
100	386.4	50	0.875676	1.354286	2.883041	50	-11.37	-14.67	-24.53	-24.07
102	386.45	51	0.862162	1.368571	2.883041	51	-11.37	-14.59	-24.52	-24.04

104	386.42	52	0.835135	1.411429	2.926901	52	-11.36	-14.53	-24.51	-24.01
106	386.43	53	0.835135	1.425714	2.95614	53	-11.35	-14.46	-24.5	-23.98
108	386.48	54	0.848649	1.468571	2.926901	54	-11.33	-14.39	-24.49	-23.94
110	386.45	55	0.848649	1.411429	2.853801	55	-11.31	-14.33	-24.49	-23.92
112	386.4	56	0.835135	1.425714	2.780702	56	-11.29	-14.26	-24.47	-23.89
114	386.36	57	0.848649	1.44	2.780702	57	-11.28	-14.2	-24.47	-23.87
116	386.33	58	0.862162	1.482857	2.795322	58	-11.29	-14.13	-24.46	-23.84
118	386.37	59	0.848649	1.497143	2.912281	59	-11.29	-14.07	-24.45	-23.82
120	386.35	60	0.835135	1.497143	2.95614	60	-11.27	-14.01	-24.44	-23.79
122	386.36	61	0.794595	1.525714	2.912281	61	-11.23	-13.95	-24.43	-23.76
124	386.41	62	0.794595	1.54	2.868421	62	-11.23	-13.89	-24.43	-23.74
126	386.39	63	0.821622	1.554286	2.809942	63	-11.21	-13.83	-24.41	-23.71
128	386.44	64	0.794595	1.611429	2.868421	64	-11.19	-13.77	-24.4	-23.68
130	386.4	65	0.781081	1.597143	2.868421	65	-11.2	-13.71	-24.39	-23.65
132	386.41	66	0.835135	1.554286	2.780702	66	-11.2	-13.66	-24.39	-23.63
134	386.47	67	0.794595	1.611429	2.795322	67	-11.17	-13.61	-24.38	-23.6
136	386.43	68	0.808108	1.582857	2.795322	68	-11.15	-13.56	-24.37	-23.58
138	386.44	69	0.821622	1.625714	2.853801	69	-11.12	-13.51	-24.36	-23.55
140	386.48	70	0.808108	1.654286	2.897661	70	-11.15	-13.46	-24.35	-23.54
142	386.45	71	0.821622	1.654286	2.94152	71	-11.15	-13.41	-24.35	-23.51
144	386.5	72	0.835135	1.668571	2.897661	72	-11.13	-13.36	-24.34	-23.49
146	386.46	73	0.862162	1.668571	2.95614	73	-11.09	-13.3	-24.33	-23.46
148	386.51	74	0.875676	1.697143	2.95614	74	-11.08	-13.26	-24.32	-23.44
150	386.47	75	0.902703	1.682857	2.95614	75	-11.07	-13.21	-24.31	-23.41
152	386.49	76	0.862162	1.754286	3.02924	76	-11.08	-13.17	-24.31	-23.39
154	386.53	77	0.862162	1.797143	3.04386	77	-11.07	-13.13	-24.31	-23.37
156	386.51	78	0.92973	1.84	3.073099	78	-11.06	-13.08	-24.29	-23.35
158	386.52	79	0.916216	1.84	3.131579	79	-11.06	-13.03	-24.28	-23.33
160	386.56	80	0.92973	1.825714	3.087719	80	-11.01	-12.99	-24.28	-23.3
162	386.53	81	0.92973	1.84	3.087719	81	-11.01	-12.94	-24.26	-23.28
164	386.58	82	0.943243	1.911429	3.087719	82	-10.99	-12.9	-24.25	-23.25
166	386.54	83	0.97027	1.925714	3.146199	83	-11	-12.85	-24.24	-23.23
168	386.59	84	0.943243	1.94	3.190058	84	-11	-12.81	-24.24	-23.21
170	386.59	85	0.956757	1.997143	3.204678	85	-10.96	-12.77	-24.22	-23.18
172	386.54	86	0.956757	1.997143	3.204678	86	-10.94	-12.73	-24.2	-23.16
174	386.5	87	0.943243	2.011429	3.248538	87	-10.93	-12.69	-24.18	-23.14
176	386.46	88	0.983784	2.011429	3.219298	88	-10.94	-12.65	-24.17	-23.12
178	386.47	89	1.051351	2.025714	3.292398	89	-10.93	-12.61	-24.17	-23.09
180	386.51	90	1.051351	2.097143	3.336257	90	-10.93	-12.58	-24.16	-23.08
182	386.54	91	1.051351	2.111429	3.292398	91	-10.89	-12.55	-24.14	-23.05
184	386.48	92	1.024324	2.125714	3.365497	92	-10.87	-12.5	-24.13	-23.02
186	386.53	93	1.064865	2.154286	3.365497	93	-10.86	-12.47	-24.12	-23.01
188	386.5	94	1.132432	2.182857	3.380117	94	-10.88	-12.43	-24.11	-22.99
190	386.56	95	1.145946	2.211429	3.321637	95	-10.88	-12.4	-24.11	-22.97
192	386.52	96	1.159459	2.225714	3.394737	96	-10.85	-12.36	-24.11	-22.95

194	386.56	97	1.213514	2.24	3.482456	97	-10.82	-12.33	-24.09	-22.93
196	386.53	98	1.240541	2.282857	3.467836	98	-10.82	-12.3	-24.08	-22.91
198	386.53	99	1.267568	2.24	3.555556	99	-10.8	-12.27	-24.08	-22.89
200	386.53	100	1.281081	2.24	3.584795	100	-10.81	-12.23	-24.08	-22.87
202	386.58	101	1.294595	2.24	3.643275	101	-10.81	-12.2	-24.08	-22.85
204	386.54	102	1.308108	2.254286	3.643275	102	-10.81	-12.17	-24.08	-22.83
206	386.59	103	1.321622	2.282857	3.701754	103	-10.78	-12.14	-24.07	-22.82
208	386.59	104	1.362162	2.382857	3.789474	104	-10.76	-12.1	-24.06	-22.79
210	386.56	105	1.402703	2.411429	3.774854	105	-10.75	-12.07	-24.06	-22.77
212	386.6	106	1.42973	2.425714	3.760234	106	-10.77	-12.04	-24.05	-22.76
214	386.58	107	1.42973	2.454286	3.804094	107	-10.77	-12.01	-24.05	-22.74
216	386.61	108	1.416216	2.44	3.789474	108	-10.75	-11.98	-24.05	-22.73
218	386.57	109	1.47027	2.397143	3.818713	109	-10.72	-11.95	-24.04	-22.7
220	386.59	110	1.497297	2.44	3.847953	110	-10.71	-11.92	-24.04	-22.69
222	386.63	111	1.42973	2.454286	3.921053	111	-10.7	-11.89	-24.04	-22.67
224	386.59	112	1.456757	2.468571	3.964912	112	-10.71	-11.87	-24.03	-22.66
226	386.63	113	1.497297	2.511429	4.008772	113	-10.71	-11.84	-24.03	-22.64
228	386.64	114	1.524324	2.568571	4.052632	114	-10.71	-11.81	-24.02	-22.63
230	386.61	115	1.537838	2.554286	4.008772	115	-10.66	-11.78	-24.02	-22.61
232	386.64	116	1.551351	2.582857	3.994152	116	-10.65	-11.75	-24.02	-22.59
234	386.61	117	1.564865	2.54	3.994152	117	-10.67	-11.72	-24.01	-22.58
236	386.65	118	1.578378	2.554286	4.038012	118	-10.67	-11.69	-24.01	-22.56
238	386.62	119	1.591892	2.582857	4.052632	119	-10.66	-11.67	-24	-22.55
240	386.66	120	1.618919	2.611429	4.111111	120	-10.62	-11.64	-24	-22.53
242	386.63	121	1.605405	2.597143	4.111111	121	-10.6	-11.61	-23.98	-22.51
244	386.66	122	1.632432	2.625714	4.184211	122	-10.62	-11.58	-23.98	-22.49
246	386.63	123	1.672973	2.654286	4.140351	123	-10.64	-11.56	-23.98	-22.48
248	386.67	124	1.659459	2.682857	4.24269	124	-10.61	-11.54	-23.97	-22.46
250	386.63	125	1.618919	2.682857	4.30117	125	-10.59	-11.51	-23.97	-22.44
252	386.68	126	1.672973	2.697143	4.330409	126	-10.57	-11.49	-23.96	-22.43
254	386.64	127	1.713514	2.74	4.374269	127	-10.59	-11.46	-23.96	-22.41
256	386.64	128	1.754054	2.768571	4.403509	128	-10.59	-11.43	-23.95	-22.4
258	386.68	129	1.754054	2.754286	4.388889	129	-10.58	-11.4	-23.94	-22.38
260	386.64	130	1.740541	2.782857	4.447368	130	-10.55	-11.38	-23.94	-22.36
262	386.68	131	1.740541	2.825714	4.447368	131	-10.53	-11.36	-23.93	-22.35
264	386.65	132	1.794595	2.84	4.447368	132	-10.55	-11.33	-23.93	-22.34
266	386.68	133	1.754054	2.797143	4.432749	133	-10.55	-11.31	-23.92	-22.32
268	386.64	134	1.808108	2.825714	4.491228	134	-10.54	-11.29	-23.92	-22.31
270	386.68	135	1.835135	2.882857	4.461988	135	-10.5	-11.26	-23.91	-22.29
272	386.56	136	1.848649	2.854286	4.505848	136	-10.49	-11.24	-23.91	-22.27
274	386.57	137	1.848649	2.882857	4.564327	137	-10.5	-11.22	-23.91	-22.27
276	386.61	138	1.848649	2.84	4.535088	138	-10.51	-11.19	-23.9	-22.25
278	386.57	139	1.862162	2.868571	4.549708	139	-10.5	-11.17	-23.89	-22.24
280	386.61	140	1.875676	2.954286	4.593567	140	-10.47	-11.15	-23.89	-22.22
282	386.58	141	1.902703	2.982857	4.564327	141	-10.46	-11.13	-23.89	-22.21

284	386.62	142	1.902703	2.997143	4.578947	142	-10.46	-11.11	-23.87	-22.2
286	386.59	143	1.916216	2.982857	4.622807	143	-10.47	-11.08	-23.86	-22.18
288	386.62	144	1.943243	3.011429	4.622807	144	-10.45	-11.06	-23.85	-22.16
290	386.59	145	1.97027	3.025714	4.637427	145	-10.42	-11.04	-23.84	-22.15
292	386.63	146	1.97027	2.997143	4.710526	146	-10.39	-11.01	-23.83	-22.12
294	386.6	147	1.943243	3.04	4.739766	147	-10.41	-10.99	-23.82	-22.11
296	386.63	148	2.010811	3.082857	4.725146	148	-10.42	-10.97	-23.81	-22.1
298	386.6	149	2.010811	3.097143	4.666667	149	-10.41	-10.95	-23.8	-22.08
300	386.64	150	2.037838	3.082857	4.652047	150	-10.38	-10.94	-23.8	-22.07
302	386.6	151	2.024324	3.068571	4.754386	151	-10.34	-10.9	-23.77	-22.04
304	386.64	152	2.078378	3.14	4.812865	152	-10.37	-10.88	-23.76	-22.03
306	386.65	153	2.078378	3.154286	4.827485	153	-10.37	-10.87	-23.76	-22.02
308	386.61	154	2.064865	3.182857	4.900585	154	-10.37	-10.85	-23.76	-22.01
310	386.65	155	2.105405	3.211429	4.915205	155	-10.36	-10.84	-23.76	-22
312	386.62	156	2.145946	3.182857	4.915205	156	-10.33	-10.82	-23.76	-21.98
314	386.66	157	2.118919	3.211429	4.900585	157	-10.32	-10.8	-23.75	-21.97
316	386.62	158	2.172973	3.268571	4.988304	158	-10.35	-10.79	-23.76	-21.96
318	386.66	159	2.2	3.282857	5.032164	159	-10.36	-10.77	-23.76	-21.95
320	386.62	160	2.159459	3.297143	5.076023	160	-10.33	-10.74	-23.75	-21.93
322	386.63	161	2.159459	3.297143	5.076023	161	-10.29	-10.72	-23.75	-21.91
324	386.67	162	2.186486	3.325714	5.090643	162	-10.29	-10.71	-23.74	-21.91
326	386.63	163	2.213514	3.354286	5.134503	163	-10.31	-10.68	-23.74	-21.89
328	386.67	164	2.240541	3.354286	5.178363	164	-10.32	-10.67	-23.74	-21.88
330	386.64	165	2.240541	3.354286	5.178363	165	-10.29	-10.65	-23.74	-21.87
332	386.67	166	2.240541	3.368571	5.192982	166	-10.28	-10.64	-23.74	-21.86
334	386.64	167	2.213514	3.411429	5.178363	167	-10.26	-10.62	-23.73	-21.85
336	386.68	168	2.240541	3.397143	5.178363	168	-10.3	-10.6	-23.73	-21.85
338	386.64	169	2.267568	3.397143	5.207602	169	-10.29	-10.58	-23.73	-21.83
340	386.68	170	2.308108	3.411429	5.207602	170	-10.26	-10.56	-23.72	-21.81
342	386.65	171	2.321622	3.411429	5.251462	171	-10.25	-10.54	-23.72	-21.8
344	386.68	172	2.308108	3.44	5.251462	172	-10.23	-10.53	-23.71	-21.79
346	386.68	173	2.321622	3.454286	5.266082	173	-10.25	-10.51	-23.71	-21.78
348	386.74	174	2.348649	3.454286	5.295322	174	-10.25	-10.49	-23.7	-21.77
350	386.69	175	2.362162	3.482857	5.280702	175	-10.24	-10.47	-23.7	-21.75
352	386.65	176	2.308108	3.525714	5.324561	176	-10.2	-10.46	-23.7	-21.74
354	386.69	177	2.335135	3.497143	5.280702	177	-10.2	-10.44	-23.69	-21.73
356	386.66	178	2.362162	3.468571	5.295322	178	-10.22	-10.43	-23.69	-21.72
358	386.65	179	2.375676	3.482857	5.339181	179	-10.23	-10.41	-23.69	-21.71
360	386.65	180	2.375676	3.525714	5.353801	180	-10.21	-10.39	-23.68	-21.7
362	386.65	181	2.389189	3.525714	5.368421	181	-10.18	-10.39	-23.69	-21.69
364	386.69	182	2.362162	3.482857	5.339181	182	-10.19	-10.37	-23.68	-21.69
366	386.66	183	2.348649	3.497143	5.309942	183	-10.22	-10.35	-23.68	-21.68
368	386.69	184	2.362162	3.568571	5.397661	184	-10.17	-10.34	-23.68	-21.67
370	386.7	185	2.402703	3.568571	5.44152	185	-10.16	-10.32	-23.67	-21.65
372	386.66	186	2.42973	3.525714	5.397661	186	-10.18	-10.3	-23.67	-21.65

374	386.69	187	2.416216	3.497143	5.426901	187	-10.19	-10.29	-23.66	-21.63
376	386.66	188	2.416216	3.568571	5.45614	188	-10.15	-10.27	-23.66	-21.62
378	386.7	189	2.402703	3.597143	5.45614	189	-10.11	-10.25	-23.65	-21.6
380	386.66	190	2.402703	3.611429	5.45614	190	-10.14	-10.23	-23.65	-21.59
382	386.7	191	2.456757	3.582857	5.5	191	-10.16	-10.22	-23.64	-21.58
384	386.66	192	2.483784	3.582857	5.45614	192	-10.11	-10.2	-23.64	-21.57
386	386.7	193	2.483784	3.597143	5.51462	193	-10.09	-10.19	-23.63	-21.56
388	386.67	194	2.510811	3.625714	5.47076	194	-10.13	-10.17	-23.62	-21.55
390	386.7	195	2.497297	3.668571	5.5	195	-10.11	-10.15	-23.62	-21.54
392	386.67	196	2.497297	3.668571	5.5	196	-10.09	-10.14	-23.62	-21.53
394	386.71	197	2.47027	3.625714	5.51462	197	-10.08	-10.13	-23.62	-21.52
396	386.67	198	2.510811	3.654286	5.51462	198	-10.1	-10.11	-23.62	-21.51
398	386.71	199	2.510811	3.625714	5.52924	199	-10.11	-10.1	-23.62	-21.51
400	386.67	200	2.537838	3.611429	5.55848	200	-10.08	-10.09	-23.61	-21.49
402	386.67	201	2.551351	3.625714	5.52924	201	-10.04	-10.07	-23.6	-21.48
404	386.65	202	2.564865	3.668571	5.573099	202	-10.08	-10.06	-23.6	-21.47
406	386.7	203	2.564865	3.668571	5.587719	203	-10.09	-10.05	-23.6	-21.47
408	386.66	204	2.551351	3.697143	5.602339	204	-10.05	-10.03	-23.59	-21.45
410	386.71	205	2.564865	3.711429	5.602339	205	-10.03	-10.02	-23.59	-21.44
412	386.69	206	2.578378	3.725714	5.631579	206	-10.05	-10.01	-23.59	-21.44
414	386.66	207	2.591892	3.754286	5.631579	207	-10.08	-10	-23.59	-21.44
416	386.68	208	2.591892	3.725714	5.646199	208	-10.04	-9.98	-23.59	-21.42
418	386.7	209	2.618919	3.754286	5.690058	209	-10.01	-9.96	-23.58	-21.4
420	386.65	210	2.632432	3.797143	5.719298	210	-10.01	-9.94	-23.57	-21.39
422	386.65	211	2.605405	3.768571	5.719298	211	-10.03	-9.93	-23.57	-21.39
424	386.69	212	2.605405	3.725714	5.690058	212	-10.03	-9.92	-23.57	-21.38
426	386.65	213	2.605405	3.711429	5.646199	213	-10.01	-9.91	-23.57	-21.37
428	386.69	214	2.605405	3.754286	5.704678	214	-9.99	-9.9	-23.57	-21.36
430	386.66	215	2.645946	3.768571	5.675439	215	-10	-9.89	-23.57	-21.36
432	386.7	216	2.672973	3.754286	5.631579	216	-10.01	-9.87	-23.56	-21.35
434	386.67	217	2.7	3.825714	5.690058	217	-10.02	-9.87	-23.57	-21.35
436	386.71	218	2.713514	3.768571	5.777778	218	-9.99	-9.86	-23.56	-21.34
438	386.68	219	2.672973	3.74	5.748538	219	-9.97	-9.85	-23.56	-21.32
440	386.71	220	2.686486	3.754286	5.719298	220	-10	-9.84	-23.57	-21.33
442	386.67	221	2.727027	3.797143	5.748538	221	-10	-9.82	-23.56	-21.31
444	386.71	222	2.781081	3.811429	5.763158	222	-10	-9.81	-23.56	-21.3
446	386.67	223	2.754054	3.811429	5.748538	223	-9.96	-9.8	-23.55	-21.29
448	386.71	224	2.754054	3.825714	5.777778	224	-9.95	-9.78	-23.54	-21.28
450	386.67	225	2.713514	3.854286	5.792398	225	-9.95	-9.77	-23.54	-21.27
452	386.7	226	2.713514	3.825714	5.763158	226	-9.96	-9.75	-23.54	-21.26
454	386.66	227	2.767568	3.84	5.777778	227	-9.98	-9.75	-23.54	-21.26
456	386.67	228	2.740541	3.854286	5.807018	228	-9.94	-9.73	-23.53	-21.24
458	386.7	229	2.754054	3.84	5.807018	229	-9.91	-9.71	-23.52	-21.22
460	386.67	230	2.767568	3.882857	5.777778	230	-9.91	-9.7	-23.52	-21.22
462	386.7	231	2.740541	3.868571	5.807018	231	-9.94	-9.7	-23.53	-21.23

464	386.67	232	2.754054	3.868571	5.821637	232	-9.94	-9.69	-23.52	-21.22
466	386.7	233	2.767568	3.84	5.807018	233	-9.91	-9.67	-23.52	-21.2
468	386.66	234	2.794595	3.868571	5.850877	234	-9.9	-9.66	-23.51	-21.2
470	386.7	235	2.808108	3.882857	5.880117	235	-9.93	-9.66	-23.52	-21.2
472	386.66	236	2.781081	3.911429	5.880117	236	-9.94	-9.65	-23.52	-21.19
474	386.7	237	2.808108	3.911429	5.909357	237	-9.9	-9.64	-23.52	-21.18
476	386.66	238	2.808108	3.911429	5.938596	238	-9.89	-9.63	-23.51	-21.18
478	386.7	239	2.848649	3.925714	5.909357	239	-9.91	-9.61	-23.5	-21.17
480	386.66	240	2.875676	3.997143	5.880117	240	-9.92	-9.6	-23.5	-21.16
482	386.69	241	2.862162	3.94	5.850877	241	-9.87	-9.59	-23.5	-21.15
484	386.66	242	2.808108	3.925714	5.865497					
486	386.69	243	2.781081	3.925714	5.836257					
488	386.66	244	2.821622	3.954286	5.909357					
490	386.7	245	2.835135	3.982857	5.953216					
492	386.66	246	2.848649	3.954286	5.938596					
494	386.7	247	2.862162	3.925714	5.967836					
496	386.66	248	2.835135	3.94	5.953216					
498	386.69	249	2.821622	3.982857	5.880117					
500	386.66	250	2.808108	4.011429	5.909357					
502	386.69	251	2.821622	3.982857	5.938596					
504	386.67	252	2.875676	3.982857	5.938596					
506	386.69	253	2.916216	3.982857	5.923977					
508	386.65	254	2.916216	3.968571	5.953216					
510	386.68	255	2.902703	3.968571	5.967836					
512	386.64	256	2.889189	3.997143	5.982456					
514	386.68	257	2.875676	4.025714	6.011696					
516	386.65	258	2.902703	3.954286	6.026316					
518	386.64	259	2.862162	3.925714	6.040936					
520	386.63	260	2.902703	3.968571	6.040936					
522	386.64	261	2.916216	3.94	6.011696					
524	386.68	262	2.92973	3.982857	5.997076					
526	386.65	263	2.916216	4.04	6.011696					
528	386.65	264	2.956757	4.04	6.040936					
530	386.7	265	2.943243	4.025714	6.011696					
532	386.65	266	2.956757	4.025714	6.026316					
534	386.67	267	2.943243	4.025714	6.084795					
536	386.68	268	2.902703	4.082857	6.070175					
538	386.64	269	2.889189	4.04	6.055556					
540	386.67	270	2.92973	4.011429	6.011696					
542	386.64	271	2.916216	3.997143	6.011696					
544	386.67	272	2.916216	4.054286	6.040936					
546	386.64	273	2.916216	4.025714	6.055556					
548	386.67	274	2.956757	4.025714	6.070175					
550	386.64	275	2.97027	4.04	6.114035					
552	386.66	276	2.97027	4.011429	6.114035					

554	386.64	277	2.97027	4.011429	6.084795
556	386.67	278	2.97027	4.054286	6.070175
558	386.63	279	2.956757	4.082857	6.099415
560	386.68	280	2.943243	4.04	6.157895
562	386.64	281	2.956757	3.982857	6.143275
564	386.68	282	2.956757	4.054286	6.172515
566	386.64	283	2.943243	4.082857	6.157895
568	386.67	284	2.997297	4.125714	6.128655
570	386.64	285	2.997297	4.111429	6.128655
572	386.7	286	2.97027	4.097143	6.143275
574	386.63	287	2.983784	4.068571	6.128655
576	386.72	288	3.010811	4.097143	6.128655
578	386.63	289	3.010811	4.097143	6.143275
580	386.63	290	2.997297	4.097143	6.128655
582	386.67	291	2.956757	4.154286	6.114035
584	386.63	292	3.024324	4.14	6.128655
586	386.67	293	2.997297	4.097143	6.099415
588	386.64	294	3.037838	4.082857	6.187135
590	386.67	295	3.024324	4.111429	6.216374
592	386.64	296	2.997297	4.054286	6.187135
594	386.67	297	3.024324	4.054286	6.128655
596	386.65	298	2.983784	4.097143	6.187135
598	386.67	299	3.010811	4.097143	6.230994
600	386.64	300	3.010811	4.082857	6.230994
602	386.68	301	3.010811	4.111429	6.260234
604	386.65	302	3.010811	4.111429	6.201754
606	386.69	303	3.024324	4.125714	6.230994
608	386.69	304	3.037838	4.14	6.304094
610	386.66	305	3.024324	4.097143	6.172515
612	386.69	306	3.037838	4.125714	6.172515
614	386.66	307	3.078378	4.14	6.260234
616	386.69	308	3.064865	4.14	6.216374
618	386.65	309	3.024324	4.14	6.172515
620	386.69	310	3.024324	4.082857	6.157895
622	386.65	311	3.064865	4.125714	6.216374
624	386.69	312	3.078378	4.168571	6.201754
626	386.66	313	3.091892	4.14	6.201754
628	386.68	314	3.078378	4.154286	6.216374
630	386.66	315	3.037838	4.14	6.245614
632	386.67	316	3.064865	4.14	6.245614
634	386.69	317	3.064865	4.14	6.201754
636	386.75	318	3.078378	4.14	6.245614
638	386.64	319	3.105405	4.154286	6.289474
640	386.69	320	3.145946	4.168571	6.245614
642	386.69	321	3.132432	4.154286	6.260234

644	386.65	322	3.078378	4.14	6.289474
646	386.69	323	3.064865	4.168571	6.230994
648	386.65	324	3.037838	4.168571	6.274854
650	386.64	325	3.037838	4.14	6.274854
652	386.65	326	3.078378	4.125714	6.274854
654	386.68	327	3.078378	4.111429	6.289474
656	386.65	328	3.132432	4.125714	6.216374
658	386.68	329	3.105405	4.14	6.289474
660	386.65	330	3.105405	4.14	6.318713
662	386.68	331	3.091892	4.14	6.318713
664	386.65	332	3.091892	4.14	6.362573
666	386.68	333	3.105405	4.14	6.377193
668	386.65	334	3.078378	4.154286	6.318713
670	386.68	335	3.091892	4.211429	6.377193
672	386.66	336	3.118919	4.197143	6.347953
674	386.68	337	3.118919	4.097143	6.304094
676	386.65	338	3.105405	4.111429	6.304094
678	386.68	339	3.105405	4.14	6.289474
680	386.65	340	3.118919	4.14	6.318713
682	386.65	341	3.132432	4.154286	6.318713
684	386.67	342	3.091892	4.154286	6.377193
686	386.69	343	3.118919	4.211429	6.406433
688	386.67	344	3.118919	4.211429	6.333333
690	386.64	345	3.159459	4.225714	6.347953
692	386.68	346	3.145946	4.211429	6.347953
694	386.64	347	3.145946	4.225714	6.333333
696	386.67	348	3.159459	4.197143	6.377193
698	386.63	349	3.145946	4.182857	6.391813
700	386.67	350	3.159459	4.182857	6.347953
702	386.64	351	3.159459	4.182857	6.362573
704	386.67	352	3.118919	4.168571	6.406433
706	386.64	353	3.132432	4.197143	6.391813
708	386.68	354	3.132432	4.24	6.391813
710	386.64	355	3.145946	4.211429	6.347953
712	386.67	356	3.145946	4.197143	6.421053
714	386.63	357	3.186486	4.197143	6.377193
716	386.68	358	3.145946	4.168571	6.406433
718	386.63	359	3.145946	4.168571	6.406433
720	386.67	360	3.172973	4.182857	6.435673
722	386.64	361	3.132432	4.168571	6.421053
724	386.66	362	3.118919	4.197143	6.464912
726	386.64	363	3.145946	4.182857	6.450292
728	386.66	364	3.172973	4.225714	6.464912
730	386.63	365	3.2	4.225714	6.435673
732	386.67	366	3.186486	4.182857	6.406433

734	386.63	367	3.186486	4.182857	6.421053
736	386.67	368	3.186486	4.168571	6.421053
738	386.63	369	3.172973	4.125714	6.450292
740	386.66	370	3.172973	4.154286	6.508772
742	386.63	371	3.159459	4.168571	6.479532
744	386.67	372	3.2	4.168571	6.464912
746	386.64	373	3.186486	4.24	6.406433
748	386.67	374	3.186486	4.211429	6.435673
750	386.63	375	3.172973	4.182857	6.494152
752	386.67	376	3.186486	4.14	6.479532
754	386.63	377	3.172973	4.125714	6.435673
756	386.66	378	3.2	4.211429	6.479532
758	386.62	379	3.240541	4.254286	6.464912
760	386.67	380	3.213514	4.211429	6.464912
762	386.62	381	3.186486	4.24	6.508772
764	386.66	382	3.159459	4.211429	6.538012
766	386.63	383	3.186486	4.24	6.538012
768	386.65	384	3.2	4.225714	6.538012
770	386.63	385	3.2	4.24	6.523392
772	386.66	386	3.172973	4.254286	6.523392
774	386.62	387	3.172973	4.225714	6.523392
776	386.66	388	3.213514	4.24	6.508772
778	386.62	389	3.2	4.182857	6.508772
780	386.67	390	3.186486	4.211429	6.523392
782	386.62	391	3.2	4.211429	6.523392
784	386.65	392	3.186486	4.225714	6.508772
786	386.63	393	3.186486	4.254286	6.479532
788	386.65	394	3.213514	4.282857	6.494152
790	386.63	395	3.213514	4.254286	6.464912
792	386.66	396	3.213514	4.225714	6.508772
794	386.62	397	3.2	4.24	6.538012
796	386.66	398	3.2	4.254286	6.552632
798	386.61	399	3.186486	4.211429	6.581871
800	386.65	400	3.172973	4.225714	6.508772
802	386.63	401	3.186486	4.225714	6.523392
804	386.66	402	3.186486	4.225714	6.552632
806	386.61	403	3.172973	4.211429	6.581871
808	386.66	404	3.172973	4.197143	6.596491
810	386.61	405	3.186486	4.211429	6.596491
812	386.64	406	3.240541	4.182857	6.538012
814	386.61	407	3.240541	4.168571	6.538012
816	386.65	408	3.186486	4.182857	6.567251
818	386.62	409	3.186486	4.182857	6.538012
820	386.64	410	3.186486	4.211429	6.523392
822	386.61	411	3.213514	4.254286	6.523392

824	386.65	412	3.227027	4.225714	6.552632
826	386.6	413	3.267568	4.268571	6.581871
828	386.66	414	3.254054	4.297143	6.523392
830	386.64	415	3.213514	4.311429	6.538012
832	386.61	416	3.240541	4.297143	6.538012
834	386.65	417	3.294595	4.282857	6.567251
		418	3.294595	4.282857	6.596491
		419	3.254054	4.297143	6.567251
		420	3.267568	4.268571	6.538012
		421	3.294595	4.254286	6.581871
		422	3.254054	4.24	6.581871
		423	3.267568	4.254286	6.581871
		424	3.281081	4.282857	6.567251
		425	3.267568	4.268571	6.596491
		426	3.254054	4.268571	6.611111
		427	3.240541	4.211429	6.611111
		428	3.267568	4.211429	6.654971
		429	3.267568	4.24	6.625731
		430	3.254054	4.225714	6.581871
		431	3.281081	4.24	6.611111
		432	3.294595	4.268571	6.596491
		433	3.267568	4.254286	6.596491
		434	3.254054	4.297143	6.581871
		435	3.240541	4.311429	6.596491
		436	3.267568	4.282857	6.596491
		437	3.267568	4.268571	6.625731
		438	3.281081	4.268571	6.640351
		439	3.281081	4.225714	6.640351
		440	3.267568	4.24	6.611111
		441	3.308108	4.268571	6.625731
		442	3.308108	4.325714	6.596491
		443	3.308108	4.268571	6.611111
		444	3.321622	4.282857	6.611111
		445	3.281081	4.297143	6.654971
		446	3.281081	4.282857	6.640351
		447	3.308108	4.268571	6.625731
		448	3.308108	4.325714	6.611111
		449	3.281081	4.268571	6.611111
		450	3.281081	4.268571	6.640351
		451	3.321622	4.282857	6.611111
		452	3.321622	4.282857	6.611111
		453	3.308108	4.24	6.640351
		454	3.308108	4.211429	6.581871
		455	3.308108	4.282857	6.625731
		456	3.294595	4.311429	6.669591

457	3.308108	4.282857	6.669591
458	3.308108	4.268571	6.625731
459	3.321622	4.254286	6.625731
460	3.348649	4.24	6.625731
461	3.348649	4.254286	6.669591
462	3.335135	4.297143	6.654971
463	3.308108	4.282857	6.669591
464	3.335135	4.268571	6.71345
465	3.348649	4.254286	6.669591
466	3.335135	4.282857	6.654971
467	3.321622	4.24	6.654971
468	3.294595	4.225714	6.684211
469	3.294595	4.24	6.69883
470	3.335135	4.268571	6.71345
471	3.362162	4.297143	6.74269
472	3.348649	4.282857	6.69883
473	3.348649	4.254286	6.684211
474	3.321622	4.282857	6.71345
475	3.362162	4.34	6.684211
476	3.348649	4.311429	6.69883
477	3.362162	4.24	6.71345
478	3.348649	4.268571	6.669591
479	3.321622	4.268571	6.654971
480	3.321622	4.297143	6.625731
481	3.321622	4.297143	6.69883
482	3.362162	4.268571	6.684211
483	3.389189	4.297143	6.69883
484	3.375676	4.282857	6.71345
485	3.375676	4.297143	6.71345
486	3.335135	4.34	6.71345
487	3.335135	4.311429	6.669591
488	3.362162	4.254286	6.669591
489	3.362162	4.268571	6.654971
490	3.375676	4.311429	6.640351
491	3.375676	4.311429	6.69883
492	3.362162	4.282857	6.69883
493	3.335135	4.254286	6.71345
494	3.375676	4.297143	6.75731
495	3.389189	4.34	6.75731
496	3.348649	4.268571	6.77193
497	3.362162	4.254286	6.74269
498	3.348649	4.282857	6.75731
499	3.348649	4.297143	6.72807
500	3.348649	4.282857	6.71345
501	3.389189	4.311429	6.74269

502	3.402703	4.34	6.74269
503	3.375676	4.297143	6.71345
504	3.362162	4.282857	6.74269
505	3.335135	4.254286	6.72807
506	3.362162	4.254286	6.69883
507	3.389189	4.268571	6.77193
508	3.402703	4.311429	6.78655
509	3.402703	4.311429	6.71345
510	3.389189	4.282857	6.71345
511	3.362162	4.297143	6.71345
512	3.375676	4.282857	6.71345
513	3.389189	4.311429	6.74269
514	3.389189	4.325714	6.72807
515	3.416216	4.282857	6.75731
516	3.402703	4.254286	6.74269
517	3.42973	4.254286	6.74269
518	3.416216	4.297143	6.72807
519	3.402703	4.311429	6.75731
520	3.416216	4.311429	6.77193
521	3.42973	4.311429	6.72807
522	3.402703	4.254286	6.74269
523	3.456757	4.297143	6.72807
524	3.42973	4.325714	6.71345
525	3.416216	4.282857	6.78655
526	3.375676	4.282857	6.80117
527	3.402703	4.297143	6.75731
528	3.402703	4.282857	6.74269
529	3.375676	4.268571	6.77193
530	3.416216	4.24	6.77193
531	3.42973	4.268571	6.74269
532	3.375676	4.268571	6.72807
533	3.402703	4.268571	6.74269
534	3.402703	4.311429	6.80117
535	3.389189	4.325714	6.815789
536	3.416216	4.34	6.78655
537	3.402703	4.297143	6.78655
538	3.402703	4.254286	6.78655
539	3.402703	4.311429	6.75731
540	3.42973	4.297143	6.75731
541	3.42973	4.297143	6.74269
542	3.389189	4.297143	6.78655
543	3.389189	4.282857	6.78655
544	3.402703	4.254286	6.815789
545	3.389189	4.282857	6.77193
546	3.389189	4.34	6.78655

547	3.42973	4.311429	6.78655
548	3.416216	4.311429	6.80117
549	3.402703	4.311429	6.78655
550	3.443243	4.297143	6.75731
551	3.443243	4.325714	6.74269
552	3.456757	4.34	6.77193
553	3.42973	4.354286	6.80117
554	3.42973	4.325714	6.815789
555	3.456757	4.311429	6.78655
556	3.443243	4.325714	6.830409
557	3.416216	4.325714	6.830409
558	3.416216	4.297143	6.78655
559	3.416216	4.354286	6.75731
560	3.416216	4.368571	6.815789
561	3.443243	4.311429	6.77193
562	3.443243	4.297143	6.815789
563	3.42973	4.325714	6.859649
564	3.389189	4.297143	6.845029
565	3.402703	4.325714	6.77193
566	3.416216	4.311429	6.74269
567	3.42973	4.24	6.77193
568	3.42973	4.254286	6.74269
569	3.443243	4.311429	6.75731
570	3.443243	4.368571	6.77193
571	3.42973	4.354286	6.815789
572	3.456757	4.382857	6.830409
573	3.443243	4.368571	6.80117
574	3.416216	4.311429	6.815789
575	3.416216	4.297143	6.78655
576	3.416216	4.297143	6.78655
577	3.42973	4.325714	6.815789
578	3.443243	4.297143	6.859649
579	3.42973	4.282857	6.859649
580	3.443243	4.325714	6.874269
581	3.47027	4.354286	6.888889
582	3.510811	4.311429	6.874269
583	3.47027	4.268571	6.859649
584	3.443243	4.34	6.830409
585	3.42973	4.368571	6.815789
586	3.416216	4.325714	6.830409
587	3.416216	4.325714	6.815789
588	3.42973	4.34	6.80117
589	3.42973	4.297143	6.80117
590	3.42973	4.282857	6.830409
591	3.42973	4.311429	6.845029

592	3.456757	4.368571	6.859649
593	3.443243	4.411429	6.830409
594	3.47027	4.34	6.845029
595	3.443243	4.311429	6.859649
596	3.47027	4.354286	6.888889
597	3.42973	4.325714	6.845029
598	3.443243	4.34	6.830409
599	3.443243	4.354286	6.903509
600	3.47027	4.325714	6.874269
601	3.42973	4.34	6.859649
602	3.47027	4.368571	6.874269
603	3.497297	4.354286	6.874269
604	3.483784	4.354286	6.80117
605	3.483784	4.297143	6.830409
606	3.524324	4.297143	6.888889
607	3.483784	4.268571	6.830409
608	3.483784	4.297143	6.830409
609	3.42973	4.34	6.859649
610	3.47027	4.354286	6.830409
611	3.483784	4.354286	6.859649
612	3.483784	4.354286	6.918129
613	3.47027	4.325714	6.888889
614	3.47027	4.368571	6.918129
615	3.483784	4.34	6.932749
616	3.510811	4.325714	6.859649
617	3.497297	4.325714	6.830409
618	3.483784	4.325714	6.859649
619	3.443243	4.382857	6.874269
620	3.443243	4.354286	6.874269
621	3.483784	4.34	6.874269
622	3.510811	4.311429	6.874269
623	3.47027	4.282857	6.888889
624	3.497297	4.268571	6.845029
625	3.47027	4.297143	6.874269
626	3.483784	4.354286	6.888889
627	3.510811	4.354286	6.874269
628	3.510811	4.354286	6.874269
629	3.524324	4.382857	6.874269
630	3.524324	4.311429	6.903509
631	3.497297	4.268571	6.932749
632	3.47027	4.282857	6.918129
633	3.47027	4.282857	6.903509
634	3.483784	4.297143	6.888889
635	3.456757	4.311429	6.874269
636	3.497297	4.354286	6.874269

637	3.537838	4.34	6.918129
638	3.483784	4.311429	6.961988
639	3.47027	4.354286	6.918129
640	3.483784	4.382857	6.888889
641	3.497297	4.397143	6.874269
642	3.483784	4.368571	6.903509
643	3.497297	4.297143	6.874269
644	3.456757	4.297143	6.845029
645	3.47027	4.325714	6.903509
646	3.510811	4.368571	6.918129
647	3.524324	4.34	6.918129
648	3.524324	4.34	6.888889
649	3.47027	4.34	6.859649
650	3.443243	4.325714	6.888889
651	3.497297	4.382857	6.888889
652	3.551351	4.297143	6.888889
653	3.510811	4.311429	6.932749
654	3.483784	4.311429	6.918129
655	3.510811	4.282857	6.888889
656	3.510811	4.311429	6.932749
657	3.497297	4.311429	6.947368
658	3.497297	4.354286	6.903509
659	3.524324	4.382857	6.874269
660	3.551351	4.354286	6.932749
661	3.497297	4.368571	6.932749
662	3.47027	4.34	6.961988
663	3.47027	4.382857	6.932749
664	3.510811	4.382857	6.947368
665	3.537838	4.368571	6.918129
666	3.524324	4.368571	6.888889
667	3.551351	4.397143	6.874269
668	3.537838	4.354286	6.903509
669	3.524324	4.325714	6.903509
670	3.524324	4.34	6.859649
671	3.524324	4.354286	6.903509
672	3.537838	4.368571	6.874269
673	3.551351	4.397143	6.932749
674	3.578378	4.34	6.947368
675	3.537838	4.34	6.888889
676	3.537838	4.325714	6.903509
677	3.510811	4.297143	6.918129
678	3.510811	4.311429	6.947368
679	3.524324	4.382857	6.947368
680	3.537838	4.397143	6.918129
681	3.537838	4.368571	6.961988

682	3.564865	4.368571	6.947368
683	3.564865	4.368571	6.932749
684	3.510811	4.34	6.932749
685	3.510811	4.354286	6.903509
686	3.510811	4.325714	6.888889
687	3.537838	4.325714	6.903509
688	3.537838	4.325714	6.947368
689	3.564865	4.34	6.976608
690	3.564865	4.354286	6.947368
691	3.564865	4.368571	6.903509
692	3.564865	4.325714	6.947368
693	3.524324	4.297143	6.961988
694	3.510811	4.325714	6.991228
695	3.524324	4.34	6.991228
696	3.551351	4.34	6.961988
697	3.537838	4.354286	6.932749
698	3.551351	4.325714	6.918129
699	3.497297	4.34	6.918129
700	3.497297	4.354286	6.947368
701	3.524324	4.354286	6.932749
702	3.537838	4.411429	6.932749
703	3.591892	4.44	6.932749
704	3.564865	4.411429	6.903509
705	3.537838	4.382857	6.888889
706	3.537838	4.397143	6.903509
707	3.551351	4.34	6.947368
708	3.551351	4.368571	6.961988
709	3.551351	4.325714	6.918129
710	3.510811	4.311429	6.888889
711	3.551351	4.311429	6.947368
712	3.564865	4.34	6.947368
713	3.551351	4.354286	6.932749
714	3.537838	4.382857	6.976608
715	3.551351	4.354286	6.932749
716	3.564865	4.354286	6.918129
717	3.537838	4.34	6.947368
718	3.537838	4.382857	6.961988
719	3.537838	4.354286	6.947368
720	3.524324	4.382857	6.947368
721	3.510811	4.368571	6.961988
722	3.524324	4.368571	6.976608
723	3.591892	4.382857	6.976608
724	3.551351	4.397143	6.961988
725	3.537838	4.425714	6.961988
726	3.497297	4.368571	6.991228

727	3.497297	4.382857	6.918129
728	3.47027	4.382857	6.932749
729	3.524324	4.397143	6.932749
730	3.564865	4.354286	6.961988
731	3.551351	4.354286	6.976608
732	3.564865	4.34	6.961988
733	3.537838	4.354286	6.947368
734	3.564865	4.354286	6.918129
735	3.618919	4.325714	6.918129
736	3.591892	4.325714	6.961988
737	3.564865	4.354286	6.991228
738	3.578378	4.354286	6.961988
739	3.564865	4.368571	7.020468
740	3.578378	4.368571	7.005848
741	3.605405	4.382857	7.005848
742	3.537838	4.397143	6.961988
743	3.564865	4.368571	6.961988
744	3.564865	4.397143	6.961988
745	3.591892	4.354286	6.976608
746	3.551351	4.311429	6.932749
747	3.564865	4.354286	6.947368
748	3.564865	4.354286	6.976608
749	3.564865	4.368571	6.976608
750	3.564865	4.411429	7.020468
751	3.564865	4.325714	7.005848
752	3.591892	4.354286	6.991228
753	3.605405	4.368571	6.991228
754	3.591892	4.354286	6.976608
755	3.591892	4.354286	6.991228
756	3.578378	4.382857	6.976608
757	3.618919	4.325714	6.932749
758	3.564865	4.325714	6.976608
759	3.524324	4.354286	7.005848
760	3.551351	4.397143	6.976608
761	3.564865	4.397143	6.976608
762	3.551351	4.397143	6.976608
763	3.564865	4.411429	7.020468
764	3.578378	4.368571	6.991228
765	3.564865	4.382857	7.005848
766	3.578378	4.354286	7.005848
767	3.578378	4.354286	6.991228
768	3.551351	4.368571	6.961988
769	3.578378	4.354286	6.961988
770	3.578378	4.354286	7.005848
771	3.605405	4.34	7.020468

772	3.591892	4.354286	6.991228
773	3.605405	4.34	6.976608
774	3.605405	4.354286	6.991228
775	3.591892	4.354286	7.049708
776	3.578378	4.397143	7.035088
777	3.551351	4.34	7.020468
778	3.564865	4.397143	7.035088
779	3.564865	4.382857	7.049708
780	3.605405	4.354286	7.005848
781	3.578378	4.382857	6.976608
782	3.591892	4.397143	7.020468
783	3.578378	4.397143	6.991228
784	3.578378	4.44	6.976608
785	3.578378	4.397143	7.020468
786	3.578378	4.354286	6.991228
787	3.578378	4.382857	7.035088
788	3.591892	4.382857	7.035088
789	3.578378	4.411429	7.035088
790	3.605405	4.382857	7.005848
791	3.591892	4.411429	7.020468
792	3.537838	4.425714	7.020468
793	3.578378	4.397143	7.035088
794	3.618919	4.354286	7.020468
795	3.564865	4.425714	7.005848
796	3.578378	4.411429	7.020468
797	3.578378	4.397143	7.020468
798	3.578378	4.397143	6.991228
799	3.578378	4.382857	7.020468
800	3.591892	4.411429	7.035088
801	3.632432	4.382857	7.064327
802	3.578378	4.382857	7.005848
803	3.564865	4.411429	7.020468
804	3.578378	4.368571	6.976608
805	3.605405	4.368571	6.976608
806	3.618919	4.368571	7.005848
807	3.645946	4.368571	6.991228
808	3.605405	4.368571	7.005848
809	3.578378	4.382857	6.976608
810	3.591892	4.354286	7.020468
811	3.591892	4.368571	7.093567
812	3.591892	4.425714	7.078947
813	3.618919	4.411429	7.078947
814	3.618919	4.368571	7.020468
815	3.645946	4.397143	7.020468
816	3.578378	4.354286	6.991228

817	3.564865	4.382857	7.049708
818	3.578378	4.411429	7.049708
819	3.578378	4.411429	7.020468
820	3.591892	4.382857	7.035088
821	3.591892	4.411429	6.976608
822	3.645946	4.411429	6.991228
823	3.645946	4.397143	6.976608
824	3.632432	4.411429	7.049708
825	3.618919	4.354286	7.064327
826	3.605405	4.368571	7.093567
827	3.618919	4.397143	7.064327
828	3.645946	4.368571	7.035088
829	3.632432	4.354286	7.049708
830	3.632432	4.368571	7.035088
831	3.605405	4.411429	6.991228
832	3.632432	4.411429	7.020468
833	3.632432	4.354286	7.020468
834	3.605405	4.397143	7.035088

Control_exp_10

Experiment type: Control experiment. This experiment consisted of just an empty petridish.

There was not a humidity buffer inside the chamber. Chiller was set to - 38°C. Temperature around the sample was controlled by the chiller.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= humidity buffer 3= atmosphere 4= sample

Mass		RH				T				
Min.	Mass	Min.	Ch02	Ch03	Ch04	Min.	Ch01	Ch02	Ch03	Ch04
0	243.31	0	1.597297	6.874286	3.350877	0	-1.77	-16.09	-19.96	-28.9
1	279.49	1	2.137838	7.16	3.307018	1	-7.42	-17.59	-20.45	-28.55
3	277.98	2	2.908108	8.574286	3.277778	2	-14.01	-19.3	-25.04	-28.24
5	277.95	3	3.394595	10.47429	3.336257	3	-14.65	-18.47	-26.49	-28.23
7	277.63	4	3.867568	11.83143	3.365497	4	-14.19	-17.92	-26	-28.4
9	277.57	5	4.759459	13.77429	3.277778	5	-14.07	-18.23	-25.8	-28.34
11	277.47	6	5.772973	15.67429	3.01462	6	-13.42	-18.45	-26.05	-28.18
13	277.39	7	6.421622	16.46	2.576023	7	-13.04	-17.83	-25.99	-28.1
15	277.38	8	6.718919	16.16	2.064327	8	-12.67	-17.59	-25.88	-28.12

17	277.3	9	6.867568	15.20286	1.567251	9	-12.08	-17.82	-25.86	-28.02
19	277.26	10	6.827027	14.00286	1.084795	10	-11.56	-18.13	-25.87	-27.88
21	277.27	11	6.57027	12.78857	0.733918	11	-11.39	-17.93	-25.84	-27.77
23	277.22	12	6.272973	11.70286	0.54386	12	-11.44	-17.79	-25.81	-27.69
25	277.2	13	6.043243	10.77429	0.383041	13	-11.48	-17.64	-25.78	-27.64
27	277.21	14	5.840541	10.04571	0.309942	14	-11.5	-17.47	-25.75	-27.59
29	277.18	15	5.610811	9.345714	0.353801	15	-11.56	-17.33	-25.73	-27.56
31	277.15	16	5.408108	8.745714	0.397661	16	-11.62	-17.22	-25.73	-27.55
33	277.19	17	5.272973	8.36	0.397661	17	-11.62	-17.12	-25.73	-27.52
35	277.15	18	5.218919	7.96	0.426901	18	-11.67	-17.06	-25.72	-27.5
37	277.17	19	5.097297	7.645714	0.48538	19	-11.7	-17.01	-25.71	-27.49
39	277.22	20	4.975676	7.388571	0.5	20	-11.69	-16.96	-25.69	-27.47
41	277.13	21	4.854054	7.16	0.426901	21	-11.74	-16.93	-25.67	-27.45
43	277.16	22	4.772973	6.974286	0.426901	22	-11.75	-16.89	-25.66	-27.43
45	277.12	23	4.732432	6.888571	0.48538	23	-11.73	-16.84	-25.64	-27.41
47	277.15	24	4.651351	6.774286	0.47076	24	-11.75	-16.81	-25.62	-27.39
49	277.16	25	4.57027	6.617143	0.412281	25	-11.77	-16.78	-25.6	-27.36
51	277.11	26	4.583784	6.46	0.353801	26	-11.75	-16.73	-25.57	-27.34
53	277.14	27	4.543243	6.36	0.412281	27	-11.77	-16.7	-25.54	-27.32
55	277.11	28	4.52973	6.274286	0.353801	28	-11.77	-16.68	-25.53	-27.3
57	277.13	29	4.475676	6.217143	0.353801	29	-11.75	-16.63	-25.53	-27.29
59	277.11	30	4.408108	6.131429	0.368421	30	-11.77	-16.61	-25.51	-27.27
61	277.13	31	4.354054	6.074286	0.309942	31	-11.78	-16.59	-25.49	-27.26
63	277.1	32	4.327027	6.088571	0.251462	32	-11.74	-16.53	-25.46	-27.24
65	277.13	33	4.259459	6.074286	0.236842	33	-11.77	-16.52	-25.44	-27.22
67	277.1	34	4.218919	6.031429	0.236842	34	-11.78	-16.5	-25.43	-27.2
69	277.12	35	4.259459	5.988571	0.178363	35	-11.74	-16.46	-25.42	-27.19
71	277.09	36	4.259459	5.902857	0.105263	36	-11.75	-16.43	-25.4	-27.17
73	277.12	37	4.218919	5.845714	0.105263	37	-11.78	-16.42	-25.4	-27.16
75	277.08	38	4.178378	5.802857	0.017544	38	-11.74	-16.37	-25.39	-27.14
77	277.11	39	4.164865	5.788571	0.084795	39	-11.74	-16.35	-25.38	-27.13
79	277.08	40	4.097297	5.76	0.040936	40	-11.78	-16.34	-25.37	-27.12
81	277.12	41	4.083784	5.702857	0.084795	41	-11.73	-16.3	-25.36	-27.1
83	277.08	42	4.097297	5.702857	0.114035	42	-11.72	-16.27	-25.35	-27.09
85	277.11	43	4.110811	5.617143	0.055556	43	-11.75	-16.25	-25.34	-27.07
87	277.12	44	4.110811	5.702857	0.099415	44	-11.74	-16.23	-25.32	-27.06
89	277.11	45	4.07027	5.688571	0.114035	45	-11.7	-16.19	-25.3	-27.04
91	277.12	46	4.043243	5.617143	0.128655	46	-11.7	-16.15	-25.28	-27.02
93	277.13	47	4.056757	5.602857	0.157895	47	-11.72	-16.14	-25.28	-27.01
95	277.09	48	4.056757	5.645714	0.172515	48	-11.69	-16.11	-25.26	-26.99
97	277.12	49	4.056757	5.631429	0.245614	49	-11.67	-16.08	-25.25	-26.98
99	277.09	50	4.043243	5.56	0.245614	50	-11.71	-16.07	-25.24	-26.97
101	277.13	51	4.016216	5.588571	0.260234	51	-11.68	-16.04	-25.23	-26.96
103	277.1	52	4.016216	5.617143	0.333333	52	-11.66	-16.01	-25.22	-26.95
105	277.12	53	4.02973	5.617143	0.260234	53	-11.68	-15.99	-25.2	-26.94

107	277.09	54	4.056757	5.545714	0.289474	54	-11.68	-15.97	-25.19	-26.92
109	277.13	55	4.110811	5.574286	0.318713	55	-11.64	-15.94	-25.18	-26.91
111	277.1	56	4.110811	5.545714	0.289474	56	-11.67	-15.93	-25.17	-26.9
113	277.13	57	4.097297	5.545714	0.377193	57	-11.65	-15.9	-25.16	-26.88
115	277.13	58	4.083784	5.502857	0.406433	58	-11.62	-15.87	-25.14	-26.87
117	277.13	59	4.07027	5.517143	0.421053	59	-11.63	-15.86	-25.14	-26.87
119	277.12	60	4.097297	5.574286	0.450292	60	-11.62	-15.83	-25.12	-26.84
121	277.13	61	4.137838	5.588571	0.508772	61	-11.65	-15.82	-25.12	-26.84
123	277.13	62	4.164865	5.502857	0.479532	62	-11.61	-15.79	-25.1	-26.82
125	277.1	63	4.191892	5.488571	0.508772	63	-11.59	-15.76	-25.09	-26.81
127	277.13	64	4.178378	5.517143	0.581871	64	-11.59	-15.74	-25.08	-26.8
129	277.09	65	4.218919	5.531429	0.640351	65	-11.6	-15.72	-25.07	-26.78
131	277.13	66	4.191892	5.588571	0.625731	66	-11.6	-15.7	-25.05	-26.77
133	277.1	67	4.191892	5.56	0.669591	67	-11.57	-15.67	-25.05	-26.76
135	277.13	68	4.218919	5.545714	0.611111	68	-11.56	-15.65	-25.04	-26.75
137	277.13	69	4.218919	5.56	0.640351	69	-11.6	-15.64	-25.03	-26.74
139	277.1	70	4.245946	5.56	0.669591	70	-11.56	-15.61	-25.02	-26.72
141	277.13	71	4.272973	5.574286	0.71345	71	-11.54	-15.59	-25.01	-26.71
143	277.13	72	4.313514	5.631429	0.80117	72	-11.53	-15.56	-25	-26.7
145	277.1	73	4.327027	5.617143	0.815789	73	-11.57	-15.56	-25	-26.69
147	277.14	74	4.3	5.631429	0.72807	74	-11.54	-15.54	-25	-26.68
149	277.1	75	4.327027	5.56	0.80117	75	-11.52	-15.51	-24.99	-26.68
151	277.13	76	4.286486	5.602857	0.918129	76	-11.52	-15.49	-24.98	-26.67
153	277.1	77	4.340541	5.602857	0.918129	77	-11.55	-15.49	-24.98	-26.66
155	277.13	78	4.448649	5.602857	0.859649	78	-11.51	-15.46	-24.97	-26.65
157	277.1	79	4.408108	5.502857	0.888889	79	-11.5	-15.44	-24.97	-26.63
159	277.14	80	4.421622	5.517143	0.918129	80	-11.51	-15.42	-24.96	-26.62
161	277.11	81	4.408108	5.574286	0.991228	81	-11.53	-15.42	-24.96	-26.61
163	277.13	82	4.448649	5.602857	0.991228	82	-11.49	-15.39	-24.95	-26.6
165	277.14	83	4.448649	5.617143	0.991228	83	-11.46	-15.36	-24.94	-26.59
167	277.14	84	4.448649	5.617143	1.005848	84	-11.49	-15.35	-24.93	-26.58
169	277.13	85	4.462162	5.717143	1.005848	85	-11.48	-15.33	-24.93	-26.56
171	277.14	86	4.52973	5.702857	1.078947	86	-11.45	-15.31	-24.93	-26.56
173	277.11	87	4.52973	5.645714	1.093567	87	-11.45	-15.28	-24.92	-26.54
175	277.14	88	4.543243	5.674286	1.064327	88	-11.47	-15.28	-24.91	-26.53
177	277.11	89	4.516216	5.645714	1.064327	89	-11.45	-15.25	-24.9	-26.52
179	277.14	90	4.543243	5.645714	1.152047	90	-11.42	-15.23	-24.89	-26.5
181	277.11	91	4.556757	5.702857	1.239766	91	-11.4	-15.2	-24.88	-26.49
183	277.14	92	4.556757	5.631429	1.254386	92	-11.43	-15.19	-24.88	-26.48
185	277.14	93	4.57027	5.631429	1.283626	93	-11.42	-15.17	-24.87	-26.46
187	277.14	94	4.597297	5.602857	1.239766	94	-11.38	-15.15	-24.87	-26.45
189	277.11	95	4.597297	5.574286	1.254386	95	-11.38	-15.13	-24.86	-26.44
191	277.14	96	4.597297	5.56	1.283626	96	-11.38	-15.11	-24.85	-26.43
193	277.12	97	4.583784	5.66	1.254386	97	-11.39	-15.1	-24.85	-26.42
195	277.14	98	4.583784	5.702857	1.269006	98	-11.36	-15.08	-24.85	-26.41

197	277.11	99	4.583784	5.688571	1.356725	99	-11.33	-15.05	-24.84	-26.4
199	277.14	100	4.610811	5.645714	1.342105	100	-11.34	-15.03	-24.83	-26.39
201	277.11	101	4.610811	5.66	1.371345	101	-11.34	-15.01	-24.82	-26.38
203	277.15	102	4.637838	5.674286	1.371345	102	-11.34	-15	-24.82	-26.37
205	277.15	103	4.610811	5.674286	1.371345	103	-11.31	-14.97	-24.81	-26.36
207	277.14	104	4.610811	5.631429	1.400585	104	-11.3	-14.95	-24.8	-26.34
209	277.12	105	4.637838	5.66	1.385965	105	-11.33	-14.95	-24.8	-26.34
211	277.16	106	4.678378	5.645714	1.371345	106	-11.31	-14.93	-24.8	-26.33
213	277.13	107	4.705405	5.645714	1.342105	107	-11.27	-14.9	-24.78	-26.31
215	277.16	108	4.718919	5.674286	1.385965	108	-11.25	-14.87	-24.77	-26.3
217	277.13	109	4.772973	5.674286	1.429825	109	-11.29	-14.87	-24.77	-26.29
219	277.16	110	4.772973	5.631429	1.459064	110	-11.26	-14.85	-24.77	-26.27
221	277.16	111	4.732432	5.588571	1.459064	111	-11.25	-14.83	-24.76	-26.27
223	277.16	112	4.678378	5.531429	1.473684	112	-11.26	-14.82	-24.76	-26.26
225	277.16	113	4.718919	5.574286	1.502924	113	-11.28	-14.81	-24.76	-26.25
227	277.16	114	4.691892	5.602857	1.473684	114	-11.23	-14.78	-24.75	-26.24
229	277.16	115	4.772973	5.574286	1.488304	115	-11.22	-14.76	-24.75	-26.23
231	277.13	116	4.813514	5.617143	1.488304	116	-11.25	-14.76	-24.74	-26.22
233	277.16	117	4.786486	5.574286	1.488304	117	-11.22	-14.74	-24.74	-26.21
235	277.13	118	4.745946	5.56	1.517544	118	-11.2	-14.71	-24.73	-26.19
237	277.16	119	4.786486	5.631429	1.459064	119	-11.19	-14.69	-24.73	-26.19
239	277.16	120	4.827027	5.588571	1.502924	120	-11.22	-14.69	-24.73	-26.18
241	277.13	121	4.827027	5.56	1.502924	121	-11.21	-14.68	-24.72	-26.18
243	277.17	122	4.786486	5.517143	1.532164	122	-11.17	-14.65	-24.72	-26.17
245	277.16	123	4.745946	5.56	1.561404	123	-11.19	-14.63	-24.7	-26.15
247	277.16	124	4.759459	5.56	1.576023	124	-11.19	-14.63	-24.71	-26.15
249	277.12	125	4.772973	5.517143	1.605263	125	-11.15	-14.6	-24.7	-26.13
251	277.16	126	4.786486	5.574286	1.561404	126	-11.13	-14.57	-24.69	-26.12
253	277.13	127	4.786486	5.574286	1.590643	127	-11.17	-14.58	-24.7	-26.12
255	277.16	128	4.786486	5.56	1.663743	128	-11.16	-14.56	-24.7	-26.11
257	277.14	129	4.8	5.517143	1.678363	129	-11.14	-14.55	-24.69	-26.1
259	277.17	130	4.840541	5.574286	1.634503	130	-11.11	-14.52	-24.69	-26.09
261	277.14	131	4.840541	5.602857	1.678363	131	-11.13	-14.51	-24.67	-26.08
263	277.17	132	4.840541	5.645714	1.722222	132	-11.13	-14.5	-24.68	-26.07
265	277.14	133	4.854054	5.617143	1.736842	133	-11.09	-14.47	-24.67	-26.06
267	277.17	134	4.881081	5.588571	1.707602	134	-11.09	-14.46	-24.67	-26.05
269	277.13	135	4.881081	5.531429	1.678363	135	-11.09	-14.44	-24.66	-26.04
271	277.17	136	4.854054	5.545714	1.663743	136	-11.1	-14.44	-24.66	-26.04
273	277.17	137	4.894595	5.588571	1.736842	137	-11.09	-14.42	-24.66	-26.03
275	277.13	138	4.935135	5.56	1.751462	138	-11.05	-14.39	-24.65	-26.02
277	277.17	139	4.962162	5.517143	1.780702	139	-11.05	-14.38	-24.64	-26.01
279	277.14	140	4.962162	5.488571	1.722222	140	-11.07	-14.37	-24.64	-26
281	277.17	141	4.962162	5.531429	1.795322	141	-11.07	-14.36	-24.64	-26
283	277.14	142	4.989189	5.588571	1.839181	142	-11.02	-14.33	-24.63	-25.99
285	277.17	143	4.948649	5.602857	1.809942	143	-11.03	-14.31	-24.62	-25.97

287	277.14	144	4.935135	5.56	1.780702	144	-11.05	-14.31	-24.62	-25.97
289	277.17	145	5.016216	5.574286	1.751462	145	-11.01	-14.29	-24.62	-25.96
291	277.18	146	5.056757	5.617143	1.824561	146	-10.99	-14.26	-24.61	-25.95
293	277.14	147	5.043243	5.56	1.868421	147	-11.02	-14.26	-24.61	-25.94
295	277.17	148	5.016216	5.531429	1.868421	148	-11	-14.24	-24.61	-25.93
297	277.14	149	4.962162	5.588571	1.853801	149	-10.98	-14.22	-24.6	-25.93
299	277.17	150	5.02973	5.531429	1.839181	150	-10.97	-14.21	-24.6	-25.92
301	277.14	151	5.043243	5.545714	1.883041	151	-10.98	-14.19	-24.59	-25.91
303	277.17	152	5.02973	5.617143	1.868421	152	-10.98	-14.18	-24.59	-25.9
305	277.14	153	5.016216	5.602857	1.809942	153	-10.95	-14.16	-24.59	-25.89
307	277.14	154	5.043243	5.602857	1.824561	154	-10.94	-14.14	-24.58	-25.88
309	277.17	155	5.043243	5.545714	1.766082	155	-10.94	-14.13	-24.57	-25.87
311	277.14	156	5.02973	5.56	1.839181	156	-10.96	-14.13	-24.57	-25.87
313	277.17	157	5.043243	5.602857	1.839181	157	-10.92	-14.1	-24.57	-25.85
315	277.17	158	5.043243	5.588571	1.795322	158	-10.9	-14.08	-24.56	-25.84
317	277.17	159	5.124324	5.502857	1.780702	159	-10.92	-14.07	-24.55	-25.83
319	277.17	160	5.124324	5.631429	1.824561	160	-10.92	-14.06	-24.55	-25.82
321	277.17	161	5.110811	5.617143	1.868421	161	-10.9	-14.04	-24.55	-25.81
323	277.14	162	5.097297	5.602857	1.809942	162	-10.88	-14.02	-24.54	-25.8
325	277.17	163	5.07027	5.674286	1.809942	163	-10.9	-14.02	-24.54	-25.8
		164	5.097297	5.617143	1.839181	164	-10.89	-14	-24.53	-25.79
		165	5.110811	5.574286	1.853801	165	-10.87	-13.98	-24.52	-25.78
		166	5.137838	5.574286	1.897661	166	-10.83	-13.95	-24.51	-25.76
		167	5.137838	5.631429	1.868421	167	-10.85	-13.94	-24.5	-25.75
		168	5.110811	5.631429	1.853801	168	-10.87	-13.94	-24.51	-25.75
		169	5.151351	5.56	1.926901	169	-10.83	-13.92	-24.5	-25.74
		170	5.164865	5.617143	1.926901	170	-10.81	-13.89	-24.5	-25.73
		171	5.164865	5.617143	1.868421	171	-10.84	-13.89	-24.5	-25.72
		172	5.191892	5.617143	1.883041	172	-10.83	-13.88	-24.5	-25.72
		173	5.245946	5.531429	1.883041	173	-10.8	-13.86	-24.5	-25.71
		174	5.191892	5.631429	1.912281	174	-10.81	-13.85	-24.49	-25.71
		175	5.178378	5.702857	1.897661	175	-10.82	-13.85	-24.49	-25.7
		176	5.205405	5.66	1.883041	176	-10.81	-13.83	-24.49	-25.7
		177	5.218919	5.645714	1.868421	177	-10.77	-13.8	-24.48	-25.69
		178	5.232432	5.588571	1.912281	178	-10.78	-13.79	-24.47	-25.67
		179	5.164865	5.56	1.897661	179	-10.79	-13.79	-24.48	-25.67
		180	5.124324	5.602857	1.912281	180	-10.78	-13.78	-24.48	-25.67
		181	5.151351	5.645714	1.897661	181	-10.76	-13.76	-24.48	-25.66
		182	5.137838	5.66	1.868421	182	-10.76	-13.75	-24.47	-25.65
		183	5.191892	5.66	1.912281	183	-10.78	-13.74	-24.47	-25.64
		184	5.245946	5.588571	1.883041	184	-10.74	-13.72	-24.46	-25.64
		185	5.259459	5.645714	1.839181	185	-10.74	-13.7	-24.46	-25.63
		186	5.205405	5.631429	1.853801	186	-10.76	-13.7	-24.46	-25.63
		187	5.151351	5.674286	1.824561	187	-10.73	-13.68	-24.45	-25.61
		188	5.164865	5.645714	1.839181	188	-10.71	-13.67	-24.46	-25.61

189	5.151351	5.631429	1.795322	189	-10.69	-13.64	-24.44	-25.59
190	5.191892	5.674286	1.809942	190	-10.71	-13.64	-24.44	-25.59
191	5.232432	5.702857	1.868421	191	-10.72	-13.64	-24.45	-25.59
192	5.218919	5.717143	1.824561	192	-10.7	-13.61	-24.43	-25.57
193	5.191892	5.602857	1.839181	193	-10.67	-13.59	-24.42	-25.57
194	5.164865	5.574286	1.897661	194	-10.69	-13.59	-24.43	-25.57
195	5.191892	5.674286	1.912281	195	-10.68	-13.57	-24.42	-25.55
196	5.218919	5.674286	1.912281	196	-10.68	-13.56	-24.42	-25.54
197	5.232432	5.645714	1.912281	197	-10.65	-13.54	-24.42	-25.54
198	5.245946	5.674286	1.839181	198	-10.65	-13.53	-24.41	-25.53
199	5.191892	5.66	1.883041	199	-10.68	-13.53	-24.41	-25.53
200	5.164865	5.717143	1.897661	200	-10.64	-13.5	-24.4	-25.52
201	5.205405	5.674286	1.868421	201	-10.64	-13.49	-24.4	-25.51
202	5.286486	5.702857	1.94152	202	-10.66	-13.49	-24.4	-25.51
203	5.218919	5.774286	1.94152	203	-10.65	-13.48	-24.4	-25.5
204	5.232432	5.702857	1.926901	204	-10.6	-13.45	-24.39	-25.49
205	5.259459	5.702857	1.883041	205	-10.62	-13.44	-24.38	-25.48
206	5.232432	5.731429	1.868421	206	-10.62	-13.43	-24.38	-25.47
207	5.205405	5.745714	1.883041	207	-10.6	-13.41	-24.38	-25.46
208	5.232432	5.702857	1.883041	208	-10.57	-13.39	-24.37	-25.45
209	5.259459	5.688571	1.926901	209	-10.57	-13.38	-24.37	-25.44
210	5.259459	5.674286	1.897661	210	-10.56	-13.36	-24.36	-25.43
211	5.3	5.66	1.853801	211	-10.6	-13.37	-24.37	-25.43
212	5.3	5.674286	1.853801	212	-10.56	-13.34	-24.36	-25.42
213	5.286486	5.66	1.868421	213	-10.55	-13.33	-24.36	-25.42
214	5.232432	5.674286	1.897661	214	-10.57	-13.33	-24.35	-25.41
215	5.218919	5.674286	1.95614	215	-10.56	-13.32	-24.36	-25.41
216	5.245946	5.688571	1.883041	216	-10.53	-13.3	-24.35	-25.4
217	5.259459	5.731429	1.853801	217	-10.51	-13.28	-24.34	-25.39
218	5.3	5.731429	1.824561	218	-10.55	-13.28	-24.34	-25.38
219	5.286486	5.674286	1.824561	219	-10.52	-13.26	-24.34	-25.37
220	5.259459	5.702857	1.883041	220	-10.5	-13.24	-24.33	-25.37
221	5.272973	5.745714	1.839181	221	-10.51	-13.23	-24.32	-25.35
222	5.245946	5.66	1.780702	222	-10.52	-13.23	-24.32	-25.35
223	5.218919	5.674286	1.839181	223	-10.5	-13.22	-24.33	-25.35
224	5.272973	5.745714	1.883041	224	-10.48	-13.19	-24.32	-25.34
225	5.327027	5.745714	1.897661	225	-10.47	-13.18	-24.31	-25.33
226	5.313514	5.688571	1.868421	226	-10.5	-13.18	-24.32	-25.33
227	5.313514	5.66	1.883041	227	-10.48	-13.17	-24.31	-25.32
228	5.313514	5.617143	1.897661	228	-10.46	-13.15	-24.31	-25.32
229	5.340541	5.66	1.897661	229	-10.48	-13.14	-24.31	-25.31
230	5.3	5.731429	1.897661	230	-10.49	-13.14	-24.31	-25.31
231	5.259459	5.731429	1.824561	231	-10.45	-13.12	-24.3	-25.3
232	5.232432	5.717143	1.795322	232	-10.45	-13.11	-24.3	-25.3
233	5.313514	5.674286	1.809942	233	-10.48	-13.11	-24.3	-25.28

234	5.327027	5.717143	1.824561	234	-10.44	-13.09	-24.3	-25.28
235	5.313514	5.731429	1.780702	235	-10.41	-13.06	-24.28	-25.26
236	5.272973	5.717143	1.824561	236	-10.41	-13.04	-24.27	-25.25
237	5.286486	5.717143	1.824561	237	-10.45	-13.06	-24.28	-25.25
238	5.3	5.76	1.839181	238	-10.39	-13.03	-24.27	-25.24
239	5.313514	5.702857	1.839181	239	-10.4	-13.02	-24.26	-25.24
240	5.313514	5.717143	1.897661	240	-10.42	-13.01	-24.26	-25.23
241	5.327027	5.745714	1.853801	241	-10.37	-12.99	-24.26	-25.22
242	5.327027	5.788571	1.824561	242	-10.38	-12.98	-24.25	-25.21
243	5.367568	5.76	1.853801	243	-10.37	-12.97	-24.26	-25.21
244	5.367568	5.717143	1.897661	244	-10.4	-12.97	-24.26	-25.2
245	5.340541	5.76	1.824561	245	-10.37	-12.95	-24.25	-25.19
246	5.354054	5.717143	1.824561	246	-10.34	-12.93	-24.24	-25.18
247	5.394595	5.774286	1.853801	247	-10.34	-12.92	-24.24	-25.18
248	5.394595	5.702857	1.839181	248	-10.37	-12.92	-24.24	-25.18
249	5.421622	5.588571	1.824561	249	-10.35	-12.91	-24.24	-25.17
250	5.381081	5.66	1.795322	250	-10.32	-12.89	-24.24	-25.16
251	5.313514	5.76	1.736842	251	-10.33	-12.88	-24.23	-25.16
252	5.354054	5.802857	1.795322	252	-10.35	-12.88	-24.24	-25.15
253	5.381081	5.731429	1.824561	253	-10.31	-12.86	-24.23	-25.15
254	5.327027	5.745714	1.839181	254	-10.31	-12.85	-24.23	-25.14
255	5.327027	5.802857	1.795322	255	-10.32	-12.84	-24.22	-25.14
256	5.327027	5.702857	1.795322	256	-10.33	-12.83	-24.22	-25.12
257	5.3	5.702857	1.853801	257	-10.29	-12.82	-24.21	-25.12
258	5.381081	5.717143	1.839181	258	-10.29	-12.81	-24.22	-25.12
259	5.408108	5.674286	1.853801	259	-10.29	-12.79	-24.21	-25.1
260	5.381081	5.717143	1.824561	260	-10.3	-12.79	-24.21	-25.1
261	5.340541	5.731429	1.809942	261	-10.27	-12.77	-24.2	-25.09
262	5.394595	5.76	1.766082	262	-10.28	-12.77	-24.2	-25.09
263	5.381081	5.702857	1.795322	263	-10.29	-12.76	-24.2	-25.08
264	5.354054	5.66	1.824561	264	-10.26	-12.75	-24.2	-25.07
265	5.394595	5.717143	1.809942	265	-10.25	-12.74	-24.2	-25.07
266	5.408108	5.702857	1.824561	266	-10.26	-12.73	-24.21	-25.08
267	5.381081	5.688571	1.809942	267	-10.27	-12.72	-24.2	-25.06
268	5.394595	5.702857	1.809942	268	-10.26	-12.72	-24.2	-25.06
269	5.340541	5.745714	1.722222	269	-10.22	-12.69	-24.19	-25.04
270	5.313514	5.774286	1.692982	270	-10.22	-12.68	-24.19	-25.04
271	5.327027	5.76	1.678363	271	-10.26	-12.68	-24.18	-25.03
272	5.381081	5.76	1.663743	272	-10.21	-12.66	-24.18	-25.03
273	5.327027	5.774286	1.692982	273	-10.22	-12.65	-24.18	-25.02
274	5.367568	5.76	1.736842	274	-10.23	-12.65	-24.18	-25.02
275	5.435135	5.731429	1.751462	275	-10.19	-12.62	-24.16	-25
276	5.421622	5.76	1.736842	276	-10.19	-12.61	-24.17	-25
277	5.408108	5.702857	1.736842	277	-10.17	-12.6	-24.16	-25
278	5.381081	5.745714	1.692982	278	-10.2	-12.6	-24.16	-24.99

279	5.394595	5.731429	1.692982	279	-10.19	-12.59	-24.16	-24.99
280	5.394595	5.731429	1.663743	280	-10.17	-12.57	-24.16	-24.98
281	5.394595	5.788571	1.678363	281	-10.16	-12.56	-24.15	-24.97
282	5.394595	5.745714	1.649123	282	-10.18	-12.56	-24.15	-24.96
283	5.367568	5.76	1.649123	283	-10.15	-12.54	-24.14	-24.96
284	5.354054	5.76	1.692982	284	-10.14	-12.52	-24.14	-24.95
285	5.381081	5.788571	1.692982	285	-10.18	-12.53	-24.14	-24.95
286	5.394595	5.76	1.663743	286	-10.14	-12.51	-24.14	-24.94
287	5.408108	5.802857	1.678363	287	-10.12	-12.49	-24.13	-24.94
288	5.394595	5.745714	1.707602	288	-10.12	-12.48	-24.12	-24.92
289	5.394595	5.745714	1.678363	289	-10.15	-12.48	-24.12	-24.92
290	5.381081	5.76	1.678363	290	-10.11	-12.46	-24.12	-24.91
291	5.394595	5.802857	1.692982	291	-10.11	-12.45	-24.12	-24.91
292	5.381081	5.802857	1.692982	292	-10.13	-12.45	-24.12	-24.9
293	5.367568	5.774286	1.722222	293	-10.12	-12.44	-24.12	-24.9
294	5.340541	5.745714	1.649123	294	-10.1	-12.43	-24.11	-24.9
295	5.367568	5.717143	1.678363	295	-10.11	-12.42	-24.1	-24.89
296	5.354054	5.76	1.663743	296	-10.1	-12.41	-24.1	-24.88
297	5.327027	5.788571	1.678363	297	-10.08	-12.4	-24.1	-24.88
298	5.367568	5.802857	1.722222	298	-10.1	-12.39	-24.1	-24.88
299	5.381081	5.717143	1.678363	299	-10.09	-12.38	-24.1	-24.86
300	5.367568	5.717143	1.678363	300	-10.06	-12.36	-24.09	-24.85
301	5.381081	5.788571	1.663743	301	-10.05	-12.35	-24.09	-24.85
302	5.367568	5.731429	1.649123	302	-10.06	-12.35	-24.09	-24.84
303	5.394595	5.731429	1.663743	303	-10.07	-12.35	-24.1	-24.84
304	5.367568	5.702857	1.590643	304	-10.04	-12.33	-24.09	-24.83
305	5.327027	5.688571	1.619883	305	-10.02	-12.31	-24.08	-24.82
306	5.367568	5.76	1.619883	306	-10.05	-12.31	-24.08	-24.82
307	5.354054	5.745714	1.619883	307	-10.04	-12.3	-24.08	-24.81
308	5.340541	5.731429	1.649123	308	-10.02	-12.28	-24.07	-24.8
309	5.327027	5.717143	1.590643	309	-10.01	-12.27	-24.07	-24.8
310	5.340541	5.774286	1.590643	310	-10.03	-12.27	-24.06	-24.79
311	5.367568	5.817143	1.532164	311	-10	-12.25	-24.06	-24.78
312	5.408108	5.788571	1.605263	312	-9.98	-12.23	-24.05	-24.77
313	5.340541	5.76	1.590643	313	-10	-12.23	-24.05	-24.77
314	5.3	5.76	1.634503	314	-10.01	-12.23	-24.04	-24.76
315	5.354054	5.817143	1.590643	315	-9.99	-12.21	-24.05	-24.75
316	5.340541	5.802857	1.546784	316	-9.97	-12.2	-24.04	-24.74
317	5.354054	5.688571	1.546784	317	-9.96	-12.18	-24.03	-24.73
318	5.340541	5.66	1.590643	318	-9.98	-12.19	-24.04	-24.74
319	5.354054	5.645714	1.634503	319	-9.99	-12.18	-24.03	-24.73
320	5.367568	5.702857	1.605263					
321	5.354054	5.788571	1.590643					
322	5.394595	5.745714	1.590643					
323	5.394595	5.76	1.590643					

324 5.381081 5.745714 1.605263
 325 5.367568 5.731429 1.546784

Control_exp_11

Experiment type: Control experiment. This experiment consisted of just JSC Mars-1, 2 cm thick, 325.28 g. There was not a humidity buffer inside the chamber. Chiller was set to -38°C.

Temperature around the sample was controlled by the chiller.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= humidity buffer 3= atmosphere 4= sample

Mass Min.	Mass	RH Min.	Ch02	Ch03	Ch04	T Min.	Ch01	Ch02	Ch03	Ch04
0	353.53	0	3.618919	0.654286	7.020468	0	-3.39	-15.17	19.78	-26.71
1	359.19	1	3.186486	0.082857	7.049708	1	-2.71	-15.92	12.3	-26.33
3	357.47	2	2.794595	1.788571	7.035088	2	-9.32	-17.58	9.78	-25.22
5	357.18	3	2.416216	5.188571	7.064327	3	-12.34	-17.12	6.84	-25.44
7	356.45	4	1.848649	9.017143	7.005848	4	-12.04	-16.26	6.56	-26.01
9	356.22	5	1.064865	11.73143	6.903509	5	-11.44	-15.98	5.67	-25.91
11	356.15	6	0.240541	12.53143	6.654971	6	-10.79	-15.71	7.36	-25.59
13	356.09	7	0.543243	12.27429	6.318713	7	-10.52	-15.16	4.78	-25.22
15	356.02	8	1.245946	11.33143	5.967836	8	-10.09	-14.56	4.87	-24.95
17	355.99	9	1.840541	10.33143	5.51462	9	-9.5	-14.05	4.72	-24.75
19	356.02	10	2.245946	9.474286	5.061404	10	-9.13	-13.56	3.71	-24.57
21	355.99	11	2.421622	8.574286	4.652047	11	-8.72	-13.13	5.96	-24.43
23	356.07	12	2.313514	7.902857	4.28655	12	-8.54	-12.83	5.88	-24.33
25	355.7	13	2.07027	7.302857	4.052632	13	-8.56	-12.63	5.51	-24.28
27	356.11	14	1.772973	6.774286	3.847953	14	-8.59	-12.44	5.54	-24.23
29	355.98	15	1.516216	6.402857	3.687135	15	-8.59	-12.26	5.76	-24.2
31	356.02	16	1.232432	5.974286	3.584795	16	-8.6	-12.12	5.89	-24.18
33	356.01	17	0.989189	5.617143	3.467836	17	-8.67	-11.98	5.6	-24.16
35	356.07	18	0.854054	5.36	3.365497	18	-8.68	-11.86	5.76	-24.14
37	356.08	19	0.745946	5.16	3.307018	19	-8.67	-11.72	5.56	-24.11
39	356.06	20	0.651351	4.931429	3.307018	20	-8.72	-11.6	5.47	-24.09
41	356.11	21	0.556757	4.66	3.336257	21	-8.72	-11.49	5.48	-24.07
43	356.11	22	0.462162	4.517143	3.277778	22	-8.71	-11.38	5.14	-24.05
45	356.15	23	0.408108	4.374286	3.204678	23	-8.72	-11.27	4.36	-24.03
47	356.14	24	0.354054	4.188571	3.190058	24	-8.77	-11.18	4.31	-24.01

49	356.16	25	0.327027	4.017143	3.160819	25	-8.72	-11.08	4.48	-23.98
51	356.19	26	0.313514	3.902857	3.087719	26	-8.72	-10.98	4.44	-23.96
53	356.2	27	0.327027	3.731429	3.02924	27	-8.78	-10.89	3.69	-23.93
55	356.25	28	0.286486	3.617143	3.01462	28	-8.73	-10.8	4.48	-23.91
57	356.23	29	0.327027	3.517143	3.04386	29	-8.71	-10.71	3.81	-23.89
59	356.26	30	0.286486	3.388571	3.04386	30	-8.73	-10.63	3.76	-23.87
61	356.3	31	0.327027	3.274286	3	31	-8.75	-10.55	3.99	-23.85
63	356.32	32	0.381081	3.188571	2.97076	32	-8.7	-10.47	3.93	-23.82
65	356.32	33	0.408108	3.06	2.94152	33	-8.69	-10.39	3.67	-23.8
67	356.35	34	0.448649	3.002857	2.94152	34	-8.71	-10.32	3.17	-23.78
69	356.35	35	0.448649	2.902857	2.897661	35	-8.72	-10.26	2.8	-23.76
71	356.38	36	0.394595	2.845714	2.853801	36	-8.67	-10.18	2.88	-23.74
73	356.4	37	0.394595	2.76	2.839181	37	-8.7	-10.11	2.86	-23.71
75	356.4	38	0.421622	2.731429	2.824561	38	-8.67	-10.05	2.82	-23.69
77	356.44	39	0.394595	2.731429	2.809942	39	-8.64	-9.98	1.34	-23.67
79	356.47	40	0.394595	2.645714	2.795322	40	-8.64	-9.92	2.2	-23.65
81	356.46	41	0.408108	2.602857	2.809942	41	-8.66	-9.86	1.66	-23.63
83	356.46	42	0.381081	2.56	2.751462	42	-8.64	-9.8	1.96	-23.61
85	356.47	43	0.408108	2.46	2.678363	43	-8.61	-9.75	3.39	-23.59
87	356.49	44	0.421622	2.402857	2.707602	44	-8.62	-9.7	3.28	-23.57
89	356.5	45	0.421622	2.417143	2.663743	45	-8.63	-9.64	3.22	-23.55
91	356.53	46	0.475676	2.374286	2.649123	46	-8.57	-9.58	3.5	-23.52
93	356.52	47	0.475676	2.445714	2.605263	47	-8.57	-9.53	2.86	-23.5
95	356.55	48	0.489189	2.36	2.590643	48	-8.58	-9.48	2.04	-23.48
97	356.56	49	0.502703	2.288571	2.634503	49	-8.57	-9.43	2.93	-23.46
99	356.57	50	0.516216	2.288571	2.634503	50	-8.53	-9.38	4.28	-23.44
101	356.55	51	0.583784	2.302857	2.590643	51	-8.55	-9.33	4.65	-23.42
103	356.59	52	0.597297	2.231429	2.590643	52	-8.54	-9.28	3.49	-23.4
105	356.58	53	0.57027	2.245714	2.590643	53	-8.51	-9.24	4.21	-23.38
107	356.63	54	0.543243	2.174286	2.590643	54	-8.49	-9.19	4.54	-23.35
109	356.61	55	0.556757	2.131429	2.634503	55	-8.52	-9.14	3.71	-23.32
111	356.63	56	0.52973	2.117143	2.619883	56	-8.46	-9.1	4.18	-23.31
113	356.61	57	0.52973	2.088571	2.605263	57	-8.45	-9.06	4.05	-23.29
115	356.67	58	0.556757	2.06	2.576023	58	-8.48	-9.01	3.7	-23.26
117	356.66	59	0.556757	2.074286	2.634503	59	-8.42	-8.97	4.37	-23.24
119	356.67	60	0.52973	2.002857	2.678363	60	-8.42	-8.94	3.75	-23.23
121	356.7	61	0.52973	1.945714	2.634503	61	-8.44	-8.9	3.66	-23.2
123	356.66	62	0.583784	1.931429	2.649123	62	-8.38	-8.85	4.08	-23.18
125	356.71	63	0.57027	1.888571	2.605263	63	-8.38	-8.81	3.78	-23.16
127	356.7	64	0.52973	1.888571	2.634503	64	-8.39	-8.78	3.71	-23.14
129	356.65	65	0.556757	1.802857	2.722222	65	-8.35	-8.74	4.18	-23.11
131	356.61	66	0.57027	1.802857	2.707602	66	-8.32	-8.7	4.04	-23.09
133	356.66	67	0.583784	1.76	2.736842	67	-8.32	-8.67	3.92	-23.07
135	356.65	68	0.543243	1.717143	2.795322	68	-8.33	-8.64	3.53	-23.06
137	356.67	69	0.543243	1.702857	2.780702	69	-8.31	-8.61	4.09	-23.04

139	356.65	70	0.475676	1.645714	2.839181	70	-8.26	-8.57	4.04	-23.02
141	356.68	71	0.462162	1.588571	2.883041	71	-8.25	-8.54	4.4	-22.99
143	356.66	72	0.448649	1.517143	2.912281	72	-8.27	-8.51	3.68	-22.98
145	356.7	73	0.435135	1.502857	2.926901	73	-8.25	-8.49	3.95	-22.96
147	356.71	74	0.367568	1.474286	3.01462	74	-8.21	-8.45	4.06	-22.94
149	356.7	75	0.3	1.402857	3.05848	75	-8.22	-8.43	4.62	-22.92
151	356.7	76	0.272973	1.331429	3.116959	76	-8.22	-8.4	3.3	-22.9
153	356.67	77	0.232432	1.231429	3.160819	77	-8.23	-8.38	3.27	-22.88
155	356.73	78	0.178378	1.117143	3.204678	78	-8.16	-8.35	3.76	-22.86
157	356.69	79	0.151351	1.088571	3.263158	79	-8.18	-8.32	3.6	-22.84
159	356.73	80	0.124324	1.102857	3.263158	80	-8.21	-8.31	3.21	-22.82
161	356.7	81	0.083784	1.06	3.321637	81	-8.17	-8.28	3.95	-22.8
163	356.76	82	0.043243	0.974286	3.409357	82	-8.15	-8.26	2.85	-22.79
165	356.71	83	0.02973	0.888571	3.438596	83	-8.17	-8.24	1.67	-22.78
167	356.74	84	0.016216	0.817143	3.453216	84	-8.18	-8.22	1.35	-22.76
169	356.73	85	0.010811	0.731429	3.423977	85	-8.14	-8.19	1.15	-22.74
171	356.77	86	0.037838	0.702857	3.453216	86	-8.14	-8.17	1.98	-22.72
173	356.78	87	0.091892	0.66	3.482456	87	-8.17	-8.16	-0.98	-22.71
175	356.77	88	0.145946	0.545714	3.540936	88	-8.16	-8.14	0.4	-22.69
177	356.78	89	0.186486	0.431429	3.614035	89	-8.13	-8.11	-0.52	-22.67
179	356.79	90	0.227027	0.36	3.657895	90	-8.13	-8.1	-1.22	-22.66
181	356.77	91	0.267568	0.274286	3.730994	91	-8.14	-8.09	-0.94	-22.65
183	356.78	92	0.335135	0.174286	3.774854	92	-8.15	-8.07	-1.67	-22.63
185	356.78	93	0.443243	0.131429	3.818713	93	-8.15	-8.06	-1.43	-22.62
187	356.77	94	0.42973	0.06	3.862573	94	-8.1	-8.04	-2.43	-22.6
189	356.82	95	0.510811	0.011429	3.906433	95	-8.13	-8.02	-3.17	-22.58
191	356.79	96	0.551351	0.111429	3.979532	96	-8.14	-8.01	-3.39	-22.57
193	356.78	97	0.605405	0.168571	4.023392	97	-8.1	-7.99	-0.24	-22.56
195	356.82	98	0.618919	0.24	4.008772	98	-8.08	-7.97	-2.71	-22.54
197	356.82	99	0.686486	0.311429	4.023392	99	-8.09	-7.96	-4.58	-22.53
199	356.81	100	0.7	0.368571	4.067251	100	-8.12	-7.94	-7.01	-22.51
201	356.8	101	0.754054	0.44	4.096491	101	-8.08	-7.93	-2.03	-22.5
203	356.86	102	0.740541	0.497143	4.125731	102	-8.08	-7.92	-0.27	-22.49
205	356.85	103	0.767568	0.525714	4.22807	103	-8.08	-7.9	-3.12	-22.48
207	356.84	104	0.835135	0.611429	4.22807	104	-8.11	-7.89	-1.08	-22.47
209	356.83	105	0.848649	0.668571	4.24269	105	-8.06	-7.87	-2.8	-22.45
211	356.82	106	0.889189	0.711429	4.27193	106	-8.06	-7.86	0.68	-22.44
213	356.84	107	0.902703	0.768571	4.27193	107	-8.08	-7.85	-2.1	-22.43
215	356.84	108	0.943243	0.754286	4.359649	108	-8.07	-7.84	-2.72	-22.42
217	356.87	109	0.983784	0.811429	4.388889	109	-8.03	-7.81	-1.36	-22.4
219	356.84	110	1.010811	0.868571	4.388889	110	-8.04	-7.81	-0.6	-22.4
221	356.88	111	1.037838	0.897143	4.388889	111	-8.05	-7.8	-3.37	-22.39
223	356.87	112	1.105405	0.925714	4.461988	112	-8.06	-7.78	-3.38	-22.38
225	356.84	113	1.078378	0.954286	4.461988	113	-8.02	-7.77	-0.84	-22.36
227	356.87	114	1.051351	1.011429	4.505848	114	-8.02	-7.76	-3.01	-22.35

229	356.9	115	1.132432	1.068571	4.461988	115	-8.04	-7.75	-1.46	-22.34
231	356.88	116	1.186486	1.111429	4.476608	116	-8.04	-7.74	-1.15	-22.33
233	356.85	117	1.172973	1.125714	4.505848	117	-8	-7.72	0.4	-22.32
235	356.9	118	1.213514	1.154286	4.535088	118	-8	-7.71	0.22	-22.31
237	356.88	119	1.2	1.211429	4.564327	119	-8.02	-7.7	1.42	-22.3
239	356.88	120	1.227027	1.211429	4.608187	120	-8.04	-7.69	1.78	-22.29
241	356.87	121	1.281081	1.268571	4.622807	121	-7.99	-7.68	2.88	-22.28
243	356.89	122	1.308108	1.34	4.652047	122	-8	-7.66	2.61	-22.27
245	356.86	123	1.281081	1.34	4.695906	123	-7.98	-7.66	2.67	-22.26
247	356.89	124	1.294595	1.354286	4.681287	124	-8	-7.65	1.9	-22.26
249	356.87	125	1.321622	1.397143	4.681287	125	-8.01	-7.63	0.91	-22.24
251	356.91	126	1.335135	1.397143	4.681287	126	-7.98	-7.62	1.19	-22.23
253	356.92	127	1.375676	1.397143	4.739766	127	-7.96	-7.6	1.13	-22.22
255	356.93	128	1.375676	1.425714	4.754386	128	-7.96	-7.59	-0.2	-22.21
257	356.92	129	1.42973	1.425714	4.783626	129	-7.99	-7.59	2.63	-22.2
259	356.92	130	1.47027	1.454286	4.812865	130	-7.97	-7.57	5.37	-22.19
261	356.92	131	1.456757	1.511429	4.769006	131	-7.93	-7.56	5.48	-22.17
263	356.93	132	1.483784	1.497143	4.725146	132	-7.95	-7.55	5.92	-22.17
265	356.94	133	1.497297	1.511429	4.710526	133	-7.98	-7.54	4.98	-22.15
267	356.91	134	1.524324	1.582857	4.681287	134	-7.94	-7.54	5.06	-22.15
269	356.94	135	1.551351	1.554286	4.754386	135	-7.93	-7.52	4.74	-22.14
271	356.91	136	1.524324	1.611429	4.827485	136	-7.92	-7.51	4.91	-22.13
273	356.93	137	1.510811	1.654286	4.812865	137	-7.94	-7.49	4.64	-22.12
275	356.93	138	1.537838	1.64	4.842105	138	-7.94	-7.49	3.95	-22.11
277	356.94	139	1.564865	1.74	4.929825	139	-7.91	-7.48	4.66	-22.1
279	356.95	140	1.564865	1.768571	4.959064	140	-7.91	-7.47	4.23	-22.1
281	356.94	141	1.564865	1.754286	4.973684	141	-7.95	-7.47	4.19	-22.09
283	356.96	142	1.591892	1.782857	4.988304	142	-7.93	-7.46	3.96	-22.08
285	356.95	143	1.672973	1.754286	4.973684	143	-7.89	-7.45	4.21	-22.07
287	356.93	144	1.645946	1.797143	5.017544	144	-7.91	-7.44	4.56	-22.06
289	356.95	145	1.645946	1.897143	5.032164	145	-7.93	-7.43	4.24	-22.05
291	356.97	146	1.645946	1.925714	4.988304	146	-7.88	-7.42	4.71	-22.04
293	356.96	147	1.645946	1.954286	5.017544	147	-7.92	-7.42	3.8	-22.04
295	356.94	148	1.618919	1.925714	5.046784	148	-7.92	-7.41	3.36	-22.03
297	356.96	149	1.605405	1.94	5.046784	149	-7.87	-7.4	2.97	-22.02
299	356.95	150	1.686486	1.982857	5.046784	150	-7.88	-7.39	2.46	-22.01
301	356.97	151	1.754054	2.025714	5.119883	151	-7.92	-7.38	2.35	-22
303	357.07	152	1.740541	1.997143	5.090643	152	-7.87	-7.37	2.85	-21.99
305	356.95	153	1.713514	2.025714	5.061404	153	-7.85	-7.36	2.31	-21.98
307	356.97	154	1.727027	2.025714	5.119883	154	-7.86	-7.36	1.74	-21.98
309	356.95	155	1.754054	2.011429	5.149123	155	-7.89	-7.34	2.33	-21.96
311	356.99	156	1.767568	2.025714	5.149123	156	-7.87	-7.34	4.08	-21.96
313	356.97	157	1.767568	2.111429	5.134503	157	-7.84	-7.33	4.57	-21.95
315	357	158	1.808108	2.111429	5.149123	158	-7.84	-7.32	3.92	-21.94
317	356.98	159	1.781081	2.097143	5.163743	159	-7.86	-7.31	3.93	-21.93

319	356.98	160	1.781081	2.14	5.192982	160	-7.85	-7.31	3.54	-21.92
321	356.96	161	1.821622	2.154286	5.266082	161	-7.82	-7.3	2.86	-21.91
323	357.01	162	1.862162	2.168571	5.251462	162	-7.81	-7.28	3.14	-21.9
325	356.97	163	1.889189	2.182857	5.236842	163	-7.84	-7.29	2.98	-21.9
327	357.01	164	1.889189	2.182857	5.295322	164	-7.85	-7.28	2.35	-21.89
329	356.98	165	1.862162	2.168571	5.266082	165	-7.82	-7.27	2.67	-21.89
331	356.99	166	1.835135	2.197143	5.266082	166	-7.81	-7.26	1.44	-21.88
333	357.01	167	1.875676	2.211429	5.295322	167	-7.85	-7.26	0.21	-21.87
335	357.01	168	1.875676	2.211429	5.309942	168	-7.8	-7.25	2.57	-21.86
337	357	169	1.889189	2.211429	5.339181	169	-7.79	-7.23	1.68	-21.85
339	357	170	1.92973	2.254286	5.339181	170	-7.82	-7.23	-2.49	-21.85
341	356.99	171	1.916216	2.282857	5.353801	171	-7.81	-7.22	0.25	-21.83
343	357	172	1.916216	2.268571	5.339181	172	-7.78	-7.22	1.54	-21.83
345	356.97	173	1.956757	2.297143	5.309942	173	-7.8	-7.21	0.66	-21.83
347	357	174	1.943243	2.282857	5.295322	174	-7.82	-7.21	-0.2	-21.83
349	357.05	175	1.943243	2.382857	5.324561	175	-7.8	-7.21	-0.5	-21.83
351	356.98	176	1.956757	2.397143	5.339181	176	-7.79	-7.21	0.52	-21.82
353	357.01	177	2.010811	2.382857	5.324561	177	-7.81	-7.2	-2.24	-21.81
355	356.99	178	2.010811	2.425714	5.339181	178	-7.82	-7.2	-1.36	-21.81
357	357.03	179	1.997297	2.44	5.368421	179	-7.77	-7.18	-1.81	-21.8
359	357.02	180	2.010811	2.397143	5.383041	180	-7.77	-7.18	-0.21	-21.8
361	357.01	181	2.010811	2.425714	5.353801	181	-7.79	-7.18	0.73	-21.79
363	357.02	182	2.010811	2.44	5.339181	182	-7.81	-7.17	-1.12	-21.78
365	357	183	1.997297	2.454286	5.353801	183	-7.77	-7.16	-0.57	-21.77
367	356.99	184	2.010811	2.482857	5.368421	184	-7.78	-7.16	0.41	-21.77
369	357.01	185	2.010811	2.468571	5.353801	185	-7.8	-7.16	0.19	-21.77
371	357.03	186	2.051351	2.468571	5.397661	186	-7.77	-7.14	-0.12	-21.76
373	356.99	187	2.024324	2.511429	5.412281	187	-7.76	-7.14	0.02	-21.75
375	357.02	188	1.997297	2.582857	5.426901	188	-7.8	-7.14	-0.44	-21.75
377	357.03	189	2.010811	2.497143	5.47076	189	-7.78	-7.13	0.64	-21.74
379	357.08	190	2.010811	2.468571	5.51462	190	-7.74	-7.12	0.52	-21.73
381	357.05	191	2.010811	2.525714	5.48538	191	-7.76	-7.11	-0.37	-21.72
383	357.05	192	2.024324	2.54	5.48538	192	-7.77	-7.1	-2.17	-21.71
385	357.01	193	2.064865	2.597143	5.52924	193	-7.73	-7.1	-0.04	-21.71
387	357.02	194	2.091892	2.597143	5.54386	194	-7.74	-7.1	-1.06	-21.71
389	357	195	2.091892	2.611429	5.48538	195	-7.75	-7.09	-1.34	-21.7
391	357.02	196	2.118919	2.64	5.5	196	-7.78	-7.09	-1.9	-21.69
393	357.03	197	2.145946	2.611429	5.51462	197	-7.72	-7.08	-2.58	-21.69
395	357.06	198	2.145946	2.597143	5.51462	198	-7.73	-7.08	-0.73	-21.69
397	357.04	199	2.118919	2.625714	5.48538	199	-7.75	-7.07	-4.65	-21.68
399	357.06	200	2.078378	2.625714	5.47076	200	-7.75	-7.06	-0.34	-21.67
401	357.02	201	2.118919	2.625714	5.54386	201	-7.72	-7.06	0.22	-21.67
403	357.03	202	2.145946	2.611429	5.55848	202	-7.73	-7.06	-0.38	-21.66
405	357.04	203	2.118919	2.64	5.55848	203	-7.72	-7.05	-2.38	-21.65
407	357.06	204	2.118919	2.64	5.54386	204	-7.75	-7.05	-3.11	-21.65

409	357.05	205	2.132432	2.682857	5.54386	205	-7.72	-7.04	-2.72	-21.64
411	357.07	206	2.172973	2.682857	5.54386	206	-7.69	-7.02	-4.48	-21.63
413	357.04	207	2.159459	2.74	5.54386	207	-7.7	-7.02	-2.1	-21.62
415	357.07	208	2.145946	2.725714	5.573099	208	-7.71	-7.01	-2.22	-21.61
417	357.06	209	2.172973	2.682857	5.616959	209	-7.71	-7	-4.4	-21.61
419	357.05	210	2.172973	2.711429	5.631579	210	-7.68	-7	-4.18	-21.6
421	357.07	211	2.132432	2.654286	5.587719	211	-7.67	-6.99	-3.66	-21.6
423	357.02	212	2.145946	2.682857	5.602339	212	-7.68	-6.99	-5.12	-21.6
425	357.05	213	2.186486	2.725714	5.587719	213	-7.72	-6.99	-7.36	-21.6
427	357.02	214	2.159459	2.725714	5.631579	214	-7.7	-6.99	-4.95	-21.59
429	357.06	215	2.159459	2.754286	5.631579	215	-7.67	-6.97	-5.42	-21.58
431	357.05	216	2.186486	2.754286	5.602339	216	-7.67	-6.97	-6.07	-21.58
433	357.08	217	2.159459	2.768571	5.660819	217	-7.7	-6.97	-8.72	-21.57
435	357.07	218	2.186486	2.754286	5.675439	218	-7.7	-6.96	-5.58	-21.57
437	357.05	219	2.213514	2.782857	5.631579	219	-7.65	-6.95	-6.23	-21.56
439	357.05	220	2.213514	2.754286	5.646199	220	-7.67	-6.95	-4.07	-21.56
441	357.05	221	2.186486	2.754286	5.675439	221	-7.67	-6.95	-2.97	-21.56
443	357.04	222	2.227027	2.768571	5.704678	222	-7.69	-6.95	-4.62	-21.55
445	357.05	223	2.213514	2.811429	5.733918	223	-7.68	-6.95	-4.24	-21.55
447	357.07	224	2.240541	2.797143	5.690058	224	-7.67	-6.94	-2.82	-21.55
449	357.07	225	2.267568	2.811429	5.646199	225	-7.66	-6.94	-3.13	-21.55
451	357.04	226	2.227027	2.854286	5.616959	226	-7.67	-6.93	-4.08	-21.54
453	357.03	227	2.267568	2.882857	5.646199	227	-7.69	-6.93	-3.81	-21.54
455	357.06	228	2.267568	2.868571	5.690058	228	-7.66	-6.93	-1.75	-21.54
457	357.06	229	2.227027	2.84	5.733918	229	-7.66	-6.93	-2.99	-21.53
459	357.06	230	2.240541	2.825714	5.733918	230	-7.68	-6.93	-9.97	-21.53
461	357.03	231	2.213514	2.868571	5.719298	231	-7.69	-6.92	-11.01	-21.52
463	357.08	232	2.267568	2.868571	5.733918	232	-7.64	-6.91	-6.87	-21.51
465	357.07	233	2.267568	2.811429	5.704678	233	-7.64	-6.91	-6.35	-21.51
467	357.09	234	2.294595	2.825714	5.748538	234	-7.65	-6.9	-6.98	-21.5
469	357.07	235	2.335135	2.825714	5.763158	235	-7.68	-6.9	-7.01	-21.5
471	357.06	236	2.348649	2.868571	5.777778	236	-7.64	-6.89	-1.78	-21.49
473	357.06	237	2.308108	2.84	5.763158	237	-7.63	-6.88	-2.34	-21.49
475	357.07	238	2.281081	2.897143	5.748538	238	-7.63	-6.88	-2.74	-21.48
477	357.06	239	2.281081	2.925714	5.733918	239	-7.65	-6.87	-1.75	-21.48
479	357.07	240	2.308108	2.882857	5.763158	240	-7.64	-6.87	-2.95	-21.47
481	357.06	241	2.281081	2.911429	5.807018	241	-7.63	-6.87	-1.23	-21.47
483	357.06	242	2.281081	2.882857	5.807018	242	-7.62	-6.86	0.19	-21.47
485	357.04	243	2.308108	2.911429	5.807018	243	-7.62	-6.86	-0.87	-21.46
487	357.08	244	2.308108	2.925714	5.807018	244	-7.67	-6.86	-4.05	-21.46
489	357.04	245	2.281081	2.897143	5.777778	245	-7.62	-6.85	-2.25	-21.46
491	357.07	246	2.335135	2.925714	5.777778	246	-7.6	-6.85	-1.28	-21.45
493	357.07	247	2.348649	2.911429	5.792398	247	-7.62	-6.84	-3.89	-21.45
495	357.09	248	2.348649	2.897143	5.807018	248	-7.63	-6.84	-4.31	-21.45
497	357.06	249	2.348649	2.94	5.807018	249	-7.63	-6.84	-5.53	-21.45

499	357.09	250	2.362162	2.954286	5.821637	250	-7.61	-6.83	-4.24	-21.44
		251	2.389189	2.954286	5.792398	251	-7.61	-6.83	-4.1	-21.44
		252	2.362162	2.94	5.792398	252	-7.64	-6.83	-7.24	-21.43
		253	2.335135	2.954286	5.836257	253	-7.61	-6.82	-9.08	-21.42
		254	2.362162	2.954286	5.836257	254	-7.59	-6.82	-11.35	-21.42
		255	2.335135	2.925714	5.865497	255	-7.6	-6.81	-12.41	-21.41
		256	2.362162	2.94	5.865497	256	-7.61	-6.8	-12.55	-21.41
		257	2.335135	2.94	5.865497	257	-7.62	-6.8	-9.33	-21.41
		258	2.321622	3.011429	5.909357	258	-7.58	-6.8	-7.75	-21.41
		259	2.375676	2.997143	5.865497	259	-7.59	-6.8	-7.2	-21.4
		260	2.362162	2.968571	5.894737	260	-7.6	-6.79	-9.35	-21.4
		261	2.335135	3.04	5.836257	261	-7.61	-6.79	-8.51	-21.39
		262	2.362162	3.025714	5.850877	262	-7.57	-6.77	-14.6	-21.38
		263	2.402703	3.054286	5.880117	263	-7.57	-6.77	-11.88	-21.37
		264	2.402703	3.04	5.909357	264	-7.57	-6.77	-14.98	-21.37
		265	2.42973	3.011429	5.894737	265	-7.59	-6.77	-13.97	-21.37
		266	2.443243	2.997143	5.894737	266	-7.59	-6.76	-17.63	-21.37
		267	2.42973	3.011429	5.894737	267	-7.55	-6.76	-20.47	-21.36
		268	2.443243	3.025714	5.923977	268	-7.57	-6.76	-18.23	-21.37
		269	2.42973	3.04	5.938596	269	-7.6	-6.76	-19.35	-21.36
		270	2.42973	3.04	5.953216	270	-7.58	-6.75	-18.23	-21.36
		271	2.416216	3.011429	5.953216	271	-7.55	-6.74	-16.26	-21.35
		272	2.416216	3.04	5.938596	272	-7.55	-6.74	-16.83	-21.35
		273	2.389189	3.04	5.894737	273	-7.58	-6.74	-19.35	-21.35
		274	2.389189	3.054286	5.850877	274	-7.58	-6.74	-18.58	-21.35
		275	2.375676	3.068571	5.923977	275	-7.56	-6.74	-18.96	-21.34
		276	2.416216	3.068571	5.938596	276	-7.55	-6.73	-18.86	-21.33
		277	2.456757	3.04	5.953216	277	-7.6	-6.73	-19.24	-21.34
		278	2.42973	3.111429	5.938596	278	-7.55	-6.73	-18.96	-21.33
		279	2.42973	3.125714	5.909357	279	-7.54	-6.71	-19.49	-21.32
		280	2.42973	3.068571	5.909357	280	-7.56	-6.71	-19.24	-21.32
		281	2.42973	3.04	5.938596	281	-7.56	-6.71	-21.01	-21.31
		282	2.42973	3.054286	5.953216	282	-7.55	-6.7	-19.49	-21.31
		283	2.483784	3.14	5.923977	283	-7.52	-6.7	-21.02	-21.3
		284	2.497297	3.068571	5.938596	284	-7.53	-6.69	-20.63	-21.3
		285	2.456757	3.082857	5.982456	285	-7.56	-6.7	-20.74	-21.3
		286	2.483784	3.097143	5.967836	286	-7.55	-6.69	-19.04	-21.3
		287	2.47027	3.125714	5.967836	287	-7.54	-6.69	-18.88	-21.3
		288	2.483784	3.054286	6.011696	288	-7.54	-6.69	-18.71	-21.3
		289	2.497297	3.097143	5.953216	289	-7.56	-6.69	-21.32	-21.29
		290	2.510811	3.125714	5.967836	290	-7.55	-6.68	-20.92	-21.29
		291	2.524324	3.111429	5.967836	291	-7.52	-6.68	-17.99	-21.29
		292	2.510811	3.14	5.997076	292	-7.54	-6.67	-17.69	-21.28
		293	2.497297	3.125714	6.040936	293	-7.55	-6.67	-16.2	-21.27
		294	2.47027	3.097143	6.070175	294	-7.53	-6.67	-11.49	-21.28

295	2.483784	3.154286	6.055556	295	-7.52	-6.66	-10.74	-21.27
296	2.483784	3.168571	6.040936	296	-7.52	-6.66	-14.45	-21.27
297	2.483784	3.182857	6.011696	297	-7.54	-6.66	-9.88	-21.27
298	2.497297	3.182857	6.011696	298	-7.53	-6.65	-8.53	-21.26
299	2.456757	3.14	6.026316	299	-7.5	-6.65	-9.26	-21.26
300	2.443243	3.182857	5.997076	300	-7.52	-6.65	-6.82	-21.25
301	2.47027	3.225714	5.997076	301	-7.54	-6.65	-6.38	-21.25
302	2.497297	3.225714	6.026316	302	-7.52	-6.64	-7.19	-21.25
303	2.524324	3.168571	6.070175	303	-7.49	-6.64	-5.36	-21.25
304	2.510811	3.197143	6.055556	304	-7.52	-6.63	-8.2	-21.24
305	2.497297	3.211429	6.070175	305	-7.53	-6.63	-4.23	-21.24
306	2.524324	3.197143	6.055556	306	-7.5	-6.63	-4.18	-21.24
307	2.524324	3.197143	5.997076	307	-7.52	-6.63	-8.97	-21.23
308	2.497297	3.225714	6.011696	308	-7.53	-6.63	-7.24	-21.23
309	2.456757	3.168571	6.055556	309	-7.49	-6.62	-7.72	-21.23
310	2.456757	3.182857	6.055556	310	-7.49	-6.62	-5.98	-21.23
311	2.483784	3.197143	6.055556	311	-7.51	-6.61	-7.59	-21.22
312	2.537838	3.168571	6.084795	312	-7.52	-6.62	-5.66	-21.23
313	2.537838	3.168571	6.084795	313	-7.48	-6.61	-7.3	-21.23
314	2.524324	3.125714	6.026316	314	-7.49	-6.61	-4.59	-21.22
315	2.483784	3.14	6.055556	315	-7.52	-6.61	-4.83	-21.22
316	2.497297	3.168571	6.070175	316	-7.51	-6.6	-4.96	-21.22
317	2.497297	3.211429	6.099415	317	-7.48	-6.6	-2.98	-21.21
318	2.524324	3.211429	6.099415	318	-7.47	-6.59	-4.28	-21.2
319	2.537838	3.24	6.143275	319	-7.48	-6.59	-6.2	-21.21
320	2.537838	3.24	6.099415	320	-7.5	-6.58	-9.53	-21.2
321	2.551351	3.268571	6.099415	321	-7.46	-6.57	-8.31	-21.19
322	2.537838	3.297143	6.114035	322	-7.46	-6.57	-10.1	-21.19
323	2.578378	3.268571	6.099415	323	-7.49	-6.57	-12.53	-21.19
324	2.537838	3.197143	6.128655	324	-7.49	-6.57	-9.68	-21.19
325	2.537838	3.168571	6.143275	325	-7.45	-6.56	-10.38	-21.18
326	2.564865	3.197143	6.128655	326	-7.47	-6.57	-11.94	-21.19
327	2.564865	3.197143	6.114035	327	-7.49	-6.57	-7.7	-21.18
328	2.632432	3.225714	6.114035	328	-7.49	-6.56	-8.19	-21.18
329	2.618919	3.282857	6.128655	329	-7.44	-6.56	-8.99	-21.17
330	2.578378	3.325714	6.099415	330	-7.47	-6.56	-8.05	-21.18
331	2.578378	3.254286	6.114035	331	-7.49	-6.56	-7.16	-21.17
332	2.537838	3.254286	6.128655	332	-7.46	-6.55	-6.71	-21.17
333	2.551351	3.268571	6.157895	333	-7.46	-6.55	-6.7	-21.17
334	2.551351	3.24	6.114035	334	-7.47	-6.55	-9.7	-21.17
335	2.564865	3.211429	6.099415	335	-7.5	-6.55	-4.33	-21.17
336	2.564865	3.211429	6.143275	336	-7.45	-6.54	-2.91	-21.16
337	2.564865	3.268571	6.143275	337	-7.43	-6.54	-3.51	-21.15
338	2.578378	3.268571	6.099415	338	-7.47	-6.54	-8.88	-21.15
339	2.578378	3.225714	6.114035	339	-7.48	-6.54	-8.9	-21.16

340	2.551351	3.24	6.157895	340	-7.46	-6.54	-3.75	-21.16
341	2.578378	3.225714	6.172515	341	-7.45	-6.53	-4.28	-21.15
342	2.591892	3.211429	6.157895	342	-7.44	-6.53	-1.81	-21.15
343	2.578378	3.282857	6.157895	343	-7.49	-6.53	-3.13	-21.15
344	2.564865	3.297143	6.128655	344	-7.45	-6.53	-2.83	-21.15
345	2.551351	3.268571	6.128655	345	-7.43	-6.51	-1.39	-21.13
346	2.605405	3.268571	6.157895	346	-7.45	-6.52	-2.98	-21.14
347	2.605405	3.325714	6.157895	347	-7.48	-6.51	-3.8	-21.13
348	2.618919	3.268571	6.143275	348	-7.43	-6.51	-0.31	-21.13
349	2.605405	3.254286	6.128655	349	-7.44	-6.51	1.2	-21.13
350	2.605405	3.297143	6.128655	350	-7.44	-6.51	-1.12	-21.13
351	2.591892	3.268571	6.157895	351	-7.47	-6.51	1.15	-21.13
352	2.605405	3.311429	6.143275	352	-7.44	-6.51	2.9	-21.13
353	2.591892	3.325714	6.201754	353	-7.45	-6.51	0.08	-21.13
354	2.645946	3.368571	6.216374	354	-7.46	-6.5	1.68	-21.12
355	2.645946	3.354286	6.172515	355	-7.43	-6.5	0.57	-21.12
356	2.632432	3.34	6.157895	356	-7.43	-6.5	-0.25	-21.12
357	2.605405	3.325714	6.157895	357	-7.44	-6.5	0.38	-21.11
358	2.591892	3.325714	6.172515	358	-7.46	-6.5	-1.95	-21.12
359	2.618919	3.297143	6.201754	359	-7.44	-6.49	-0.47	-21.11
360	2.659459	3.325714	6.201754	360	-7.41	-6.49	-0.84	-21.12
361	2.686486	3.34	6.201754	361	-7.45	-6.5	-3.94	-21.12
362	2.672973	3.354286	6.230994	362	-7.46	-6.49	-2.21	-21.12
363	2.645946	3.282857	6.245614	363	-7.43	-6.48	2.11	-21.11
364	2.672973	3.254286	6.260234	364	-7.4	-6.47	2.59	-21.1
365	2.672973	3.282857	6.187135	365	-7.41	-6.48	2.64	-21.1
366	2.659459	3.34	6.187135	366	-7.47	-6.48	1.15	-21.1
367	2.632432	3.368571	6.216374	367	-7.41	-6.47	0.62	-21.1
368	2.632432	3.297143	6.201754	368	-7.41	-6.47	1.68	-21.1
369	2.618919	3.282857	6.201754	369	-7.46	-6.48	2.04	-21.11
370	2.632432	3.34	6.172515	370	-7.44	-6.47	-0.12	-21.1
371	2.632432	3.311429	6.187135	371	-7.4	-6.46	0.35	-21.1
372	2.632432	3.354286	6.172515	372	-7.43	-6.46	-2.16	-21.09
373	2.686486	3.382857	6.216374	373	-7.44	-6.47	1.69	-21.1
374	2.672973	3.354286	6.216374	374	-7.42	-6.46	2.7	-21.09
375	2.645946	3.354286	6.216374	375	-7.39	-6.45	2.8	-21.09
376	2.659459	3.354286	6.216374	376	-7.43	-6.46	1.48	-21.09
377	2.645946	3.382857	6.245614	377	-7.44	-6.46	3.03	-21.08
378	2.645946	3.397143	6.245614	378	-7.41	-6.46	2.84	-21.09
379	2.645946	3.34	6.230994	379	-7.39	-6.45	3.26	-21.08
380	2.659459	3.325714	6.245614	380	-7.42	-6.44	3.13	-21.07
381	2.659459	3.368571	6.230994	381	-7.43	-6.44	1.83	-21.07
382	2.618919	3.354286	6.274854	382	-7.38	-6.44	2.46	-21.07
383	2.645946	3.368571	6.260234	383	-7.39	-6.43	0.55	-21.07
384	2.7	3.34	6.230994	384	-7.42	-6.44	0.14	-21.07

385	2.686486	3.354286	6.260234	385	-7.4	-6.43	-0.08	-21.06
386	2.672973	3.354286	6.245614	386	-7.38	-6.42	1.64	-21.06
387	2.672973	3.34	6.274854	387	-7.38	-6.42	-0.09	-21.06
388	2.645946	3.34	6.289474	388	-7.41	-6.42	-1.41	-21.06
389	2.686486	3.34	6.274854	389	-7.39	-6.42	2.33	-21.06
390	2.672973	3.311429	6.274854	390	-7.37	-6.42	2.57	-21.05
391	2.672973	3.34	6.245614	391	-7.38	-6.42	2.69	-21.06
392	2.672973	3.354286	6.245614	392	-7.4	-6.41	1.48	-21.04
393	2.659459	3.34	6.260234	393	-7.39	-6.41	3.04	-21.04
394	2.686486	3.368571	6.260234	394	-7.37	-6.41	3.59	-21.04
395	2.672973	3.368571	6.274854	395	-7.37	-6.41	4.24	-21.05
396	2.7	3.354286	6.304094	396	-7.39	-6.41	3.71	-21.05
397	2.7	3.368571	6.318713	397	-7.41	-6.41	3.42	-21.05
398	2.7	3.325714	6.318713	398	-7.38	-6.41	3.31	-21.05
399	2.7	3.368571	6.274854	399	-7.37	-6.4	3.52	-21.04
400	2.727027	3.354286	6.318713	400	-7.42	-6.4	3.92	-21.04
401	2.713514	3.382857	6.274854	401	-7.36	-6.4	4.44	-21.04
402	2.686486	3.425714	6.260234	402	-7.38	-6.4	4.63	-21.04
403	2.713514	3.382857	6.260234	403	-7.38	-6.4	4.11	-21.04
404	2.727027	3.411429	6.289474	404	-7.41	-6.4	3.85	-21.03
405	2.713514	3.397143	6.245614	405	-7.38	-6.4	4.27	-21.04
406	2.713514	3.44	6.245614	406	-7.38	-6.4	4.61	-21.04
407	2.7	3.397143	6.260234	407	-7.37	-6.39	4.72	-21.03
408	2.713514	3.411429	6.304094	408	-7.39	-6.39	4.16	-21.03
409	2.740541	3.411429	6.274854	409	-7.4	-6.39	3.63	-21.03
410	2.767568	3.325714	6.289474	410	-7.36	-6.38	3.46	-21.02
411	2.727027	3.382857	6.289474	411	-7.36	-6.38	4.4	-21.02
412	2.713514	3.44	6.274854	412	-7.39	-6.39	3.81	-21.02
413	2.7	3.368571	6.304094	413	-7.39	-6.38	3.9	-21.02
414	2.7	3.354286	6.274854	414	-7.37	-6.39	4.55	-21.03
415	2.7	3.382857	6.245614	415	-7.4	-6.39	2.7	-21.02
416	2.727027	3.411429	6.274854	416	-7.39	-6.38	3.56	-21.02
417	2.740541	3.44	6.289474	417	-7.36	-6.38	4.33	-21.02
418	2.740541	3.411429	6.289474	418	-7.4	-6.38	3.76	-21.02
419	2.740541	3.482857	6.318713	419	-7.39	-6.38	4.17	-21.02
420	2.740541	3.425714	6.304094	420	-7.36	-6.38	4.59	-21.01
421	2.767568	3.468571	6.318713	421	-7.34	-6.37	5.35	-21.01
422	2.767568	3.425714	6.274854	422	-7.37	-6.37	5.18	-21.01
423	2.781081	3.44	6.289474	423	-7.39	-6.37	5.1	-21.01
424	2.740541	3.468571	6.274854	424	-7.36	-6.37	5.32	-21.01
425	2.740541	3.497143	6.274854	425	-7.35	-6.37	4.84	-21.01
426	2.754054	3.468571	6.318713	426	-7.38	-6.37	3.51	-21.01
427	2.727027	3.454286	6.304094	427	-7.38	-6.36	4.12	-21.01
428	2.713514	3.454286	6.333333	428	-7.34	-6.36	3.84	-21
429	2.713514	3.482857	6.274854	429	-7.34	-6.35	3.77	-21

430	2.740541	3.411429	6.274854	430	-7.37	-6.35	3.56	-21
431	2.767568	3.382857	6.333333	431	-7.36	-6.35	3.34	-20.99
432	2.767568	3.397143	6.347953	432	-7.34	-6.34	3.02	-20.99
433	2.794595	3.382857	6.318713	433	-7.38	-6.35	2.59	-20.99
434	2.781081	3.44	6.347953	434	-7.37	-6.35	2.36	-20.99
435	2.754054	3.468571	6.362573	435	-7.34	-6.35	3.27	-20.99
436	2.754054	3.454286	6.377193	436	-7.33	-6.35	2.05	-20.99
437	2.754054	3.44	6.377193	437	-7.36	-6.35	1.87	-20.99
438	2.754054	3.454286	6.347953	438	-7.37	-6.34	0.89	-20.99
439	2.767568	3.468571	6.333333	439	-7.35	-6.34	2.73	-20.99
440	2.808108	3.44	6.333333	440	-7.34	-6.34	2.61	-20.99
441	2.781081	3.454286	6.333333	441	-7.34	-6.34	2.1	-20.98
442	2.767568	3.482857	6.333333	442	-7.37	-6.34	1.4	-20.99
443	2.740541	3.468571	6.333333	443	-7.36	-6.34	2.7	-20.98
444	2.767568	3.425714	6.347953	444	-7.34	-6.34	2.44	-20.98
445	2.754054	3.425714	6.347953	445	-7.35	-6.34	1.7	-20.99
446	2.767568	3.468571	6.362573	446	-7.37	-6.34	1.8	-20.99
447	2.767568	3.468571	6.377193	447	-7.36	-6.34	1.63	-20.99
448	2.781081	3.44	6.362573	448	-7.33	-6.33	1.76	-20.98
449	2.781081	3.44	6.347953	449	-7.36	-6.33	0.31	-20.98
450	2.781081	3.397143	6.362573	450	-7.37	-6.33	0.66	-20.98
451	2.781081	3.382857	6.333333	451	-7.34	-6.33	1.89	-20.98
452	2.808108	3.425714	6.347953	452	-7.33	-6.33	1.68	-20.98
453	2.794595	3.468571	6.347953	453	-7.38	-6.32	-0.04	-20.97
454	2.794595	3.468571	6.362573	454	-7.32	-6.32	1.15	-20.97
455	2.808108	3.454286	6.347953	455	-7.32	-6.31	2.35	-20.96
456	2.767568	3.468571	6.362573	456	-7.35	-6.32	3.26	-20.97
457	2.767568	3.468571	6.406433	457	-7.36	-6.32	2.92	-20.97
458	2.794595	3.468571	6.435673	458	-7.32	-6.31	3.64	-20.96
459	2.767568	3.468571	6.391813	459	-7.32	-6.31	2.74	-20.96
460	2.754054	3.425714	6.391813	460	-7.35	-6.31	0.35	-20.96
461	2.781081	3.44	6.377193	461	-7.35	-6.32	0.81	-20.97
462	2.781081	3.511429	6.391813	462	-7.33	-6.31	1.57	-20.96
463	2.794595	3.468571	6.362573	463	-7.33	-6.31	1.63	-20.96
464	2.781081	3.468571	6.391813	464	-7.36	-6.31	-0.55	-20.96
465	2.767568	3.482857	6.377193	465	-7.34	-6.31	0.13	-20.96
466	2.808108	3.497143	6.406433	466	-7.33	-6.31	0.2	-20.96
467	2.821622	3.511429	6.362573	467	-7.32	-6.31	-0.1	-20.96
468	2.808108	3.497143	6.362573	468	-7.35	-6.3	-1.77	-20.96
469	2.794595	3.497143	6.362573	469	-7.35	-6.31	-1.54	-20.96
470	2.781081	3.497143	6.391813	470	-7.33	-6.3	-1.39	-20.95
471	2.781081	3.497143	6.406433	471	-7.33	-6.31	-1.65	-20.96
472	2.767568	3.511429	6.406433	472	-7.35	-6.31	-4.17	-20.96
473	2.754054	3.482857	6.347953	473	-7.36	-6.31	-1.23	-20.96
474	2.794595	3.454286	6.362573	474	-7.33	-6.3	0.05	-20.96

475	2.835135	3.497143	6.377193	475	-7.32	-6.3	-1.27	-20.96
476	2.808108	3.525714	6.406433	476	-7.36	-6.3	-1.06	-20.95
477	2.794595	3.525714	6.406433	477	-7.35	-6.3	-1.37	-20.95
478	2.821622	3.511429	6.377193	478	-7.31	-6.29	0.22	-20.95
479	2.848649	3.482857	6.406433	479	-7.32	-6.3	0.25	-20.95
480	2.848649	3.44	6.362573	480	-7.37	-6.3	0.72	-20.95
481	2.848649	3.468571	6.377193	481	-7.33	-6.3	2.5	-20.95
482	2.848649	3.468571	6.391813	482	-7.32	-6.3	2.56	-20.95
483	2.835135	3.468571	6.435673	483	-7.32	-6.3	3.69	-20.95
484	2.821622	3.482857	6.435673	484	-7.36	-6.29	1.43	-20.95
485	2.821622	3.454286	6.435673	485	-7.34	-6.29	2.34	-20.95
486	2.808108	3.468571	6.435673	486	-7.31	-6.29	2.09	-20.94
487	2.848649	3.468571	6.391813	487	-7.31	-6.29	2.66	-20.94
488	2.821622	3.468571	6.421053	488	-7.35	-6.29	2.07	-20.94
489	2.821622	3.511429	6.377193	489	-7.33	-6.28	4.1	-20.94
490	2.821622	3.454286	6.391813	490	-7.3	-6.28	3.11	-20.94
491	2.835135	3.454286	6.435673	491	-7.31	-6.28	4.21	-20.94
492	2.835135	3.482857	6.421053	492	-7.33	-6.26	3.7	-20.93
493	2.835135	3.482857	6.391813	493	-7.3	-6.23	3.65	-20.9
494	2.821622	3.497143	6.377193	494	-7.24	-6.2	5.01	-20.88
495	2.808108	3.497143	6.391813	495	-7.23	-6.17	4.85	-20.85
496	2.821622	3.511429	6.421053	496	-7.25	-6.15	3.59	-20.82
497	2.835135	3.468571	6.421053	497	-7.22	-6.15	5.06	-20.82
498	2.821622	3.511429	6.421053	498	-7.21	-6.16	4.8	-20.83
499	2.808108	3.525714	6.406433	499	-7.22	-6.16	5.02	-20.84
500	2.821622	3.554286	6.406433	500	-7.28	-6.18	3.89	-20.86

Control_exp_12

Experiment type: Control experiment. This experiment consisted of just an empty petridish. The humidity buffer was LiCl which has a RH of 11.31 at 0 degrees Celsius. Chiller was set to -38°C. Temperature around the sample was controlled by the chiller. The thermocouples stopped recording during the experiment.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= humidity buffer 3= atmosphere 4= sample

Mass		RH				T				
Min.	Mass	Min.	Ch02	Ch03	Ch04	Min.	Ch01	Ch02	Ch03	Ch04

0	272.21	0	0.313514	1.045714	3.643275	0	3.6	-11.54	0.36	-29.53
2	275.78	1	1.245946	1.774286	3.818713	1	-4.02	-13.63	20.05	-29.59
4	275.91	2	1.691892	2.574286	4.008772	2	-13.64	-15.87	15.19	-31.08
6	275.49	3	2.07027	2.874286	4.140351	3	-13.78	-15.75	12.11	-31.52
8	275.13	4	2.516216	2.874286	4.140351	4	-12.27	-15.48	10.87	-29.94
10	274.91	5	2.840541	2.788571	4.081871	5	-11.55	-15.42	10.23	-29.38
12	274.66	6	3.02973	2.702857	3.921053	6	-10.48	-14.91	8.38	-29.15
14	274.61	7	2.989189	2.688571	3.818713	7	-10.12	-14.25	6.44	-28.9
16	274.52	8	2.745946	2.645714	3.701754	8	-9.93	-14.01	6.5	-28.61
18	274.44	9	2.340541	2.631429	3.497076	9	-9.7	-14.04	5.8	-28.36
20	274.34	10	1.840541	2.502857	3.350877	10	-9.48	-14.1	5.27	-28.15
22	274.35	11	1.381081	2.388571	3.277778	11	-9.4	-14.22	5.46	-28.02
24	274.28	12	1.02973	2.36	3.233918	12	-8.99	-14.34	3.26	-27.92
26	274.22	13	0.745946	2.317143	3.190058	13	-8.92	-14.48	1.95	-27.86
28	274.25	14	0.502703	2.317143	3.116959	14	-8.88	-14.6	1.46	-27.81
30	274.24	15	0.327027	2.36	3.087719	15	-8.85	-14.68	-0.75	-27.76
32	274.23	16	0.205405	2.36	3.102339	16	-8.86	-14.77	-3.08	-27.72
34	274.18	17	0.137838	2.302857	3.05848	17	-8.88	-14.85	-4.64	-27.69
36	274.21	18	0.124324	2.26	3.01462	18	-8.9	-14.94	-5.76	-27.67
38	274.3	19	0.151351	2.36	2.98538	19	-8.89	-14.99	-5.29	-27.64
40	274.19	20	0.137838	2.331429	2.912281	20	-8.91	-15.05	-4.39	-27.62
42	274.22	21	0.164865	2.388571	2.795322	21	-8.93	-15.11	-5.66	-27.6
44	274.26	22	0.164865	2.402857	2.722222	22	-8.92	-15.15	-5.18	-27.58
46	274.19	23	0.178378	2.417143	2.649123	23	-8.91	-15.18	-5.1	-27.56
48	274.22	24	0.205405	2.502857	2.576023	24	-8.93	-15.23	-6	-27.55
50	274.19	25	0.205405	2.531429	2.561404	25	-8.94	-15.26	-7.86	-27.53
52	274.21	26	0.259459	2.674286	2.488304	26	-8.92	-15.28	-6.97	-27.51
54	274.22	27	0.340541	2.688571	2.429825	27	-8.95	-15.31	-8.7	-27.5
56	274.21	28	0.381081	2.674286	2.385965	28	-8.94	-15.33	-7.07	-27.48
58	274.21	29	0.435135	2.702857	2.254386	29	-8.92	-15.34	-9.57	-27.47
60	274.2	30	0.556757	2.745714	2.137427	30	-8.97	-15.36	-9.02	-27.45
62	274.21	31	0.597297	2.76	2.078947	31	-8.89	-15.35	-4.14	-27.42
64	274.21	32	0.651351	2.831429	1.991228	32	-8.94	-15.37	-4.26	-27.4
66	274.18	33	0.745946	2.874286	1.932749	33	-8.89	-15.37	-4.24	-27.38
68	274.21	34	0.8	2.888571	1.874269	34	-8.88	-15.37	-3.96	-27.36
70	274.24	35	0.840541	2.96	1.77193	35	-8.9	-15.37	-2.41	-27.34
72	274.22	36	0.894595	3.117143	1.69883	36	-8.86	-15.36	-4.15	-27.32
74	274.21	37	1.016216	3.088571	1.625731	37	-8.85	-15.35	-2.91	-27.3
76	274.23	38	1.016216	3.074286	1.596491	38	-8.86	-15.35	-3.04	-27.29
78	274.25	39	1.02973	3.06	1.581871	39	-8.84	-15.34	-2.56	-27.27
80	274.21	40	1.110811	3.045714	1.523392	40	-8.82	-15.32	-4.75	-27.26
82	274.21	41	1.137838	3.002857	1.377193	41	-8.84	-15.32	-4.16	-27.24
84	274.23	42	1.151351	3.002857	1.304094	42	-8.82	-15.3	-3.42	-27.22
86	274.2	43	1.178378	3.088571	1.289474	43	-8.79	-15.28	-3.98	-27.21
88	274.23	44	1.205405	3.102857	1.230994	44	-8.83	-15.29	-4.46	-27.19

90	274.29	45	1.3	3.117143	1.201754	45	-8.77	-15.25	-3.91	-27.17
92	274.23	46	1.259459	3.102857	1.157895	46	-8.78	-15.24	-2.61	-27.15
94	274.26	47	1.340541	3.074286	1.172515	47	-8.78	-15.23	-4.43	-27.13
96	274.23	48	1.354054	3.102857	1.114035	48	-8.74	-15.21	-5.45	-27.12
98	274.27	49	1.354054	3.131429	1.026316	49	-8.72	-15.18	-5.21	-27.1
100	274.31	50	1.421622	3.202857	0.923977	50	-8.74	-15.16	-3.67	-27.08
102	274.26	51	1.435135	3.174286	0.880117	51	-8.7	-15.14	-3.95	-27.07
104	274.33	52	1.489189	3.202857	0.807018	52	-8.68	-15.12	-3.41	-27.05
106	274.25	53	1.502703	3.302857	0.792398	53	-8.66	-15.09	-3.39	-27.03
108	274.31	54	1.516216	3.36	0.763158	54	-8.68	-15.08	-3.76	-27.02
110	274.28	55	1.556757	3.302857	0.836257	55	-8.63	-15.05	-3.42	-27
112	274.32	56	1.57027	3.302857	0.792398	56	-8.61	-15.03	-3.73	-26.98
114	274.26	57	1.624324	3.36	0.646199	57	-8.61	-15	-3.44	-26.96
116	274.31	58	1.651351	3.402857	0.587719	58	-8.62	-14.99	-4.4	-26.95
118	274.33	59	1.691892	3.402857	0.587719	59	-8.59	-14.96	-2.68	-26.93
120	274.32	60	1.705405	3.431429	0.55848	60	-8.55	-14.93	-3.52	-26.92
122	274.29	61	1.718919	3.431429	0.54386	61	-8.57	-14.91	-3.59	-26.9
124	274.29	62	1.759459	3.402857	0.48538	62	-8.55	-14.89	-2.84	-26.89
126	274.33	63	1.8	3.431429	0.47076	63	-8.5	-14.85	-3.28	-26.86
128	274.27	64	1.840541	3.502857	0.397661	64	-8.52	-14.84	-2.91	-26.85
130	274.33	65	1.881081	3.517143	0.45614	65	-8.48	-14.81	-3.72	-26.82
132	274.32	66	1.908108	3.488571	0.412281	66	-8.46	-14.79	-3.63	-26.82
134	274.35	67	1.921622	3.474286	0.397661	67	-8.47	-14.77	-4.69	-26.8
136	274.29	68	1.935135	3.545714	0.309942	68	-8.45	-14.74	-4	-26.79
138	274.36	69	1.921622	3.602857	0.222222	69	-8.42	-14.72	-4.33	-26.77
140	274.29	70	1.948649	3.702857	0.178363	70	-8.42	-14.69	-4.5	-26.76
142	274.37	71	1.989189	3.631429	0.192982	71	-8.41	-14.67	-3.83	-26.74
144	274.33	72	2.002703	3.645714	0.163743	72	-8.36	-14.63	-3.92	-26.72
146	274.34	73	2.02973	3.76	0.207602	73	-8.37	-14.62	-3.66	-26.71
148	274.28	74	2.110811	3.745714	0.192982	74	-8.38	-14.61	-3.92	-26.7
150	274.36	75	2.137838	3.731429	0.192982	75	-8.32	-14.57	-2.79	-26.68
152	274.33	76	2.164865	3.702857	0.149123	76	-8.35	-14.55	-3.64	-26.67
154	274.37	77	2.137838	3.788571	0.046784	77	-8.31	-14.52	-3.65	-26.65
156	274.31	78	2.191892	3.845714	0.061404	78	-8.28	-14.49	-3.38	-26.63
158	274.36	79	2.191892	3.86	0.011696	79	-8.29	-14.47	-3.23	-26.62
160	274.32	80	2.205405	3.845714	0.070175	80	-8.28	-14.45	-4.6	-26.6
162	274.38	81	2.205405	3.902857	0.055556	81	-8.25	-14.42	-5.07	-26.59
164	274.35	82	2.259459	3.945714	0.070175	82	-8.22	-14.38	-3.39	-26.56
166	274.33	83	2.286486	3.974286	0.099415	83	-8.23	-14.37	-5.42	-26.55
168	274.36	84	2.272973	3.945714	0.128655	84	-8.22	-14.34	-4.97	-26.53
170	274.35	85	2.313514	4.031429	0.187135	85	-8.17	-14.31	-6.22	-26.51
172	274.42	86	2.313514	4.074286	0.216374	86	-8.16	-14.28	-6.29	-26.49
174	274.34	87	2.367568	4.117143	0.304094	87	-8.15	-14.25	-4.42	-26.47
176	274.37	88	2.435135	4.131429	0.347953	88	-8.12	-14.23	-5.36	-26.45
178	274.31	89	2.421622	4.16	0.347953	89	-8.08	-14.19	-4.59	-26.43

180	274.37	90	2.408108	4.231429	0.391813	90	-8.1	-14.18	-4.45	-26.41
182	274.34	91	2.435135	4.274286	0.391813	91	-8.07	-14.15	-3.57	-26.4
184	274.39	92	2.489189	4.317143	0.391813	92	-8.04	-14.12	-3.58	-26.39
186	274.34	93	2.516216	4.402857	0.391813	93	-8.06	-14.11	-6.84	-26.38
188	274.37	94	2.502703	4.388571	0.464912	94	-8.04	-14.09	-6.37	-26.36
190	274.35	95	2.489189	4.388571	0.450292	95	-8.01	-14.05	-6.23	-26.34
192	274.41	96	2.475676	4.417143	0.464912	96	-7.99	-14.02	-5.89	-26.33
194	274.45	97	2.462162	4.345714	0.406433	97	-8	-14	-8.24	-26.31
196	274.37	98	2.516216	4.345714	0.435673	98	-7.99	-13.98	-5.86	-26.3
198	274.43	99	2.543243	4.431429	0.450292	99	-7.95	-13.94	-6.5	-26.28
200	274.42	100	2.516216	4.474286	0.421053	100	-7.97	-13.93	-7.21	-26.27
202	274.38	101	2.52973	4.445714	0.406433	101	-7.94	-13.9	-7.53	-26.26
204	274.36	102	2.543243	4.445714	0.421053	102	-7.92	-13.88	-6.89	-26.24
206	274.4	103	2.57027	4.502857	0.406433	103	-7.93	-13.86	-6.07	-26.23
208	274.41	104	2.57027	4.46	0.464912	104	-7.9	-13.84	-5.55	-26.22
210	274.37	105	2.583784	4.445714	0.450292	105	-7.87	-13.81	-4.72	-26.2
212	274.41	106	2.597297	4.517143	0.450292	106	-7.87	-13.79	-4.85	-26.19
214	274.39	107	2.583784	4.545714	0.479532	107	-7.87	-13.77	-6.04	-26.18
216	274.43	108	2.583784	4.531429	0.567251	108	-7.85	-13.75	-6.31	-26.17
218	274.42	109	2.597297	4.588571	0.640351	109	-7.83	-13.72	-4.1	-26.16
220	274.42	110	2.624324	4.502857	0.596491	110	-7.81	-13.7	-4.48	-26.14
222	274.41	111	2.637838	4.56	0.611111	111	-7.84	-13.68	-7.53	-26.14
224	274.42	112	2.637838	4.631429	0.625731	112	-7.77	-13.65	-5.6	-26.12
226	274.37	113	2.691892	4.631429	0.669591	113	-7.77	-13.62	-4.84	-26.1
228	274.43	114	2.691892	4.588571	0.654971	114	-7.76	-13.6	-7.57	-26.09
230	274.39	115	2.651351	4.66	0.684211	115	-7.77	-13.58	-7.83	-26.08
232	274.44	116	2.651351	4.717143	0.669591	116	-7.72	-13.55	-5.69	-26.06
234	274.4	117	2.664865	4.745714	0.72807	117	-7.72	-13.53	-5.06	-26.06
236	274.44	118	2.651351	4.831429	0.669591	118	-7.74	-13.51	-6.84	-26.04
238	274.4	119	2.664865	4.817143	0.625731	119	-7.7	-13.49	-5.46	-26.02
240	274.44	120	2.678378	4.831429	0.640351	120	-7.67	-13.46	-4.12	-26.01
242	274.4	121	2.678378	4.845714	0.669591	121	-7.67	-13.44	-5.52	-26
244	274.45	122	2.705405	4.902857	0.654971	122	-7.7	-13.43	-6.85	-26
246	274.45	123	2.705405	4.888571	0.72807	123	-7.65	-13.4	-5.99	-25.99
248	274.45	124	2.678378	4.888571	0.75731	124	-7.63	-13.37	-5.85	-25.97
250	274.41	125	2.718919	4.917143	0.74269	125	-7.64	-13.36	-7.86	-25.95
252	274.46	126	2.732432	4.96	0.72807	126	-7.62	-13.33	-7.07	-25.94
254	274.42	127	2.759459	5.002857	0.72807	127	-7.59	-13.31	-6.14	-25.93
256	274.47	128	2.759459	4.945714	0.75731	128	-7.58	-13.28	-5.97	-25.92
258	274.42	129	2.786486	4.988571	0.78655	129	-7.6	-13.27	-7.84	-25.91
260	274.47	130	2.786486	5.031429	0.888889	130	-7.58	-13.25	-7.49	-25.9
262	274.43	131	2.759459	5.06	0.830409	131	-7.55	-13.22	-6.5	-25.88
264	274.41	132	2.772973	5.017143	0.80117	132	-7.55	-13.21	-5.19	-25.88
266	274.47	133	2.772973	5.017143	0.77193	133	-7.54	-13.19	-6.52	-25.87
268	274.43	134	2.786486	5.131429	0.78655	134	-7.55	-13.17	-6.5	-25.85

270	274.46	135	2.813514	5.16	0.78655	135	-7.52	-13.15	-4.39	-25.85
272	274.42	136	2.8	5.074286	0.874269	136	-7.52	-13.14	-6.15	-25.84
274	274.49	137	2.8	5.145714	0.80117	137	-7.52	-13.12	-9.41	-25.83
276	274.44	138	2.772973	5.188571	0.830409	138	-7.5	-13.09	-7.89	-25.82
278	274.47	139	2.8	5.131429	0.845029	139	-7.48	-13.07	-6.27	-25.81
280	274.44	140	2.772973	5.131429	0.80117	140	-7.46	-13.05	-6.92	-25.8
282	274.49	141	2.772973	5.16	0.75731	141	-7.49	-13.04	-7.77	-25.79
284	274.45	142	2.8	5.188571	0.80117	142	-7.45	-13.02	-5.73	-25.78
286	274.49	143	2.772973	5.188571	0.830409	143	-7.42	-12.98	-4.92	-25.76
288	274.5	144	2.732432	5.231429	0.830409					
290	274.44	145	2.745946	5.26	0.80117					
292	274.49	146	2.813514	5.174286	0.859649					
294	274.46	147	2.881081	5.245714	0.888889					
296	274.49	148	2.894595	5.374286	0.888889					
298	274.45	149	2.921622	5.402857	0.874269					
300	274.49	150	2.935135	5.402857	0.903509					
302	274.49	151	2.948649	5.431429	0.888889					
304	274.48	152	2.962162	5.488571	0.903509					
306	274.46	153	2.975676	5.445714	0.947368					
308	274.5	154	2.948649	5.488571	0.947368					
310	274.46	155	2.921622	5.545714	0.903509					
312	274.5	156	2.935135	5.517143	0.918129					
314	274.47	157	2.989189	5.488571	0.874269					
316	274.5	158	2.948649	5.502857	0.830409					
318	274.48	159	2.921622	5.502857	0.874269					
320	274.51	160	2.881081	5.574286	0.903509					
322	274.48	161	2.894595	5.517143	0.888889					
324	274.51	162	2.935135	5.602857	0.830409					
326	274.53	163	2.935135	5.602857	0.78655					
328	274.48	164	2.908108	5.631429	0.888889					
330	274.52	165	2.948649	5.66	0.903509					
332	274.52	166	2.975676	5.688571	0.947368					
334	274.47	167	2.962162	5.688571	0.932749					
336	274.54	168	2.894595	5.66	0.874269					
338	274.53	169	2.921622	5.645714	0.903509					
340	274.53	170	3.002703	5.745714	0.874269					
342	274.53	171	3.02973	5.802857	0.903509					
344	274.54	172	3.002703	5.802857	0.932749					
346	274.5	173	3.016216	5.845714	0.903509					
348	274.53	174	2.975676	5.802857	0.903509					
350	274.5	175	2.989189	5.817143	0.874269					
352	274.49	176	3.02973	5.888571	0.888889					
354	274.51	177	3.02973	5.874286	0.903509					
356	274.49	178	3.043243	5.845714	0.874269					
358	274.51	179	3.02973	5.902857	0.888889					

360	274.51	180	3.043243	5.974286	0.918129
362	274.51	181	3.002703	5.974286	0.874269
364	274.5	182	3.07027	5.96	0.888889
366	274.51	183	3.083784	6.002857	0.859649
368	274.49	184	3.083784	5.988571	0.888889
370	274.52	185	3.056757	6.017143	0.947368
372	274.53	186	3.043243	6.06	0.932749
374	274.55	187	3.07027	6.06	0.932749
376	274.53	188	3.07027	6.002857	0.903509
378	274.49	189	3.097297	6.002857	0.918129
380	274.52	190	3.097297	6.031429	0.874269
382	274.5	191	3.097297	6.06	0.903509
384	274.49	192	3.097297	6.074286	0.947368
386	274.53	193	3.124324	6.06	0.903509
388	274.53	194	3.124324	6.117143	0.888889
390	274.52	195	3.097297	6.131429	0.991228
392	274.53	196	3.110811	6.074286	0.947368
394	274.53	197	3.124324	6.088571	0.918129
396	274.5	198	3.124324	6.088571	0.815789
398	274.55	199	3.110811	6.117143	0.815789
400	274.54	200	3.110811	6.16	0.859649
402	274.51	201	3.110811	6.145714	0.918129
404	274.54	202	3.110811	6.202857	0.918129
406	274.54	203	3.164865	6.202857	0.859649
408	274.5	204	3.191892	6.231429	0.845029
410	274.54	205	3.232432	6.274286	0.932749
412	274.51	206	3.205405	6.302857	0.918129
414	274.51	207	3.218919	6.317143	0.903509
416	274.54	208	3.259459	6.302857	0.903509
418	274.48	209	3.272973	6.331429	0.903509
420	274.53	210	3.3	6.345714	0.947368
422	274.47	211	3.245946	6.374286	0.918129
424	274.53	212	3.205405	6.417143	0.947368
426	274.55	213	3.218919	6.402857	0.961988
428	274.53	214	3.178378	6.431429	0.918129
430	274.55	215	3.218919	6.417143	0.888889
432	274.52	216	3.218919	6.417143	0.903509
434	274.54	217	3.218919	6.402857	0.932749
436	274.49	218	3.191892	6.417143	0.918129
438	274.54	219	3.164865	6.388571	0.830409
440	274.51	220	3.191892	6.402857	0.845029
442	274.54	221	3.205405	6.488571	0.830409
444	274.55	222	3.191892	6.56	0.859649
446	274.52	223	3.232432	6.574286	0.830409
448	274.55	224	3.245946	6.674286	0.888889

450	274.53	225	3.259459	6.688571	0.947368
452	274.55	226	3.3	6.617143	0.961988
454	274.57	227	3.286486	6.574286	0.947368
456	274.53	228	3.259459	6.617143	0.961988
458	274.55	229	3.245946	6.688571	1.005848
460	274.51	230	3.272973	6.717143	0.932749
462	274.56	231	3.3	6.717143	0.859649
464	274.57	232	3.259459	6.674286	0.874269
466	274.56	233	3.232432	6.66	0.874269
468	274.55	234	3.205405	6.617143	0.815789
470	274.52	235	3.245946	6.588571	0.75731
472	274.56	236	3.218919	6.602857	0.78655
474	274.53	237	3.178378	6.688571	0.859649
476	274.57	238	3.178378	6.66	0.815789
478	274.54	239	3.205405	6.66	0.78655
480	274.57	240	3.191892	6.56	0.815789
482	274.53	241	3.178378	6.574286	0.78655
484	274.57	242	3.164865	6.674286	0.72807
486	274.57	243	3.191892	6.674286	0.77193
488	274.59	244	3.218919	6.674286	0.78655
490	274.55	245	3.191892	6.631429	0.77193
492	274.58	246	3.137838	6.645714	0.74269
494	274.53	247	3.124324	6.674286	0.74269
496	274.58	248	3.137838	6.688571	0.69883
498	274.58	249	3.137838	6.717143	0.69883
500	274.58	250	3.178378	6.631429	0.69883
502	274.6	251	3.151351	6.717143	0.684211
504	274.6	252	3.151351	6.674286	0.684211
506	274.6	253	3.137838	6.688571	0.640351
508	274.55	254	3.178378	6.66	0.625731
510	274.61	255	3.178378	6.702857	0.611111
512	274.56	256	3.191892	6.731429	0.596491
514	274.6	257	3.151351	6.774286	0.684211
516	274.61	258	3.151351	6.745714	0.684211
518	274.62	259	3.164865	6.745714	0.669591
520	274.59	260	3.205405	6.788571	0.669591
522	274.68	261	3.178378	6.76	0.640351
524	274.58	262	3.151351	6.717143	0.654971
526	274.6	263	3.151351	6.674286	0.640351
528	274.58	264	3.110811	6.702857	0.567251
530	274.6	265	3.110811	6.774286	0.611111
532	274.63	266	3.151351	6.802857	0.611111
534	274.61	267	3.164865	6.774286	0.625731
536	274.63	268	3.164865	6.845714	0.640351
538	274.61	269	3.151351	6.888571	0.654971

540	274.62	270	3.191892	6.874286	0.611111
542	274.62	271	3.191892	6.831429	0.669591
544	274.59	272	3.137838	6.874286	0.654971
546	274.62	273	3.137838	6.902857	0.611111
548	274.6	274	3.178378	6.888571	0.625731
550	274.63	275	3.124324	6.917143	0.669591
552	274.68	276	3.110811	6.902857	0.654971
554	274.57	277	3.164865	6.888571	0.596491
		278	3.124324	6.86	0.581871
		279	3.137838	6.874286	0.581871
		280	3.124324	6.917143	0.552632
		281	3.151351	6.917143	0.552632
		282	3.178378	6.874286	0.567251
		283	3.178378	6.888571	0.552632
		284	3.191892	6.888571	0.567251
		285	3.151351	6.902857	0.611111
		286	3.151351	6.945714	0.538012
		287	3.191892	6.945714	0.538012
		288	3.137838	6.96	0.552632
		289	3.110811	6.931429	0.552632
		290	3.110811	6.974286	0.523392
		291	3.110811	7.002857	0.552632
		292	3.124324	7.002857	0.508772
		293	3.151351	6.988571	0.523392
		294	3.124324	7.031429	0.508772
		295	3.110811	6.974286	0.494152
		296	3.083784	6.988571	0.479532
		297	3.110811	7.045714	0.421053
		298	3.110811	7.031429	0.435673
		299	3.151351	6.988571	0.406433
		300	3.164865	7.002857	0.450292
		301	3.137838	7.031429	0.435673
		302	3.137838	7.031429	0.464912
		303	3.097297	6.988571	0.464912
		304	3.110811	6.988571	0.450292
		305	3.097297	7.088571	0.391813
		306	3.137838	7.045714	0.450292
		307	3.151351	7.017143	0.464912
		308	3.137838	7.017143	0.391813
		309	3.137838	7.031429	0.347953
		310	3.137838	7.017143	0.333333
		311	3.151351	7.102857	0.347953
		312	3.164865	7.117143	0.347953
		313	3.151351	7.074286	0.362573
		314	3.164865	7.074286	0.347953

315	3.124324	7.117143	0.377193
316	3.110811	7.074286	0.347953
317	3.097297	7.088571	0.274854
318	3.083784	7.102857	0.304094
319	3.097297	7.102857	0.362573
320	3.097297	7.088571	0.347953
321	3.110811	7.131429	0.289474
322	3.110811	7.217143	0.289474
323	3.110811	7.145714	0.289474
324	3.07027	7.117143	0.260234
325	3.07027	7.145714	0.289474
326	3.07027	7.117143	0.318713
327	3.07027	7.16	0.289474
328	3.083784	7.174286	0.289474
329	3.110811	7.188571	0.274854
330	3.083784	7.145714	0.260234
331	3.07027	7.145714	0.289474
332	3.110811	7.16	0.304094
333	3.110811	7.188571	0.318713
334	3.07027	7.245714	0.333333
335	3.07027	7.217143	0.318713
336	3.07027	7.274286	0.230994
337	3.110811	7.302857	0.201754
338	3.110811	7.331429	0.187135
339	3.043243	7.288571	0.260234
340	3.02973	7.274286	0.201754
341	3.056757	7.274286	0.201754
342	3.07027	7.245714	0.187135
343	3.056757	7.26	0.201754
344	3.02973	7.202857	0.187135
345	3.043243	7.231429	0.187135
346	3.043243	7.317143	0.157895
347	3.02973	7.302857	0.143275
348	3.02973	7.374286	0.143275
349	3.002703	7.274286	0.128655
350	3.043243	7.245714	0.143275
351	3.02973	7.317143	0.157895
352	3.002703	7.317143	0.128655
353	3.002703	7.374286	0.128655
354	3.016216	7.331429	0.099415
355	3.02973	7.274286	0.084795
356	3.016216	7.331429	0.070175
357	3.02973	7.331429	0.040936
358	3.02973	7.388571	0.055556
359	3.056757	7.374286	0.026316

360	3.002703	7.417143	0.084795
361	3.02973	7.388571	0.055556
362	2.962162	7.388571	0.099415
363	2.975676	7.388571	0.070175
364	2.989189	7.374286	0.055556
365	3.002703	7.417143	0.070175
366	3.02973	7.402857	0.040936
367	2.989189	7.402857	0.011696
368	3.002703	7.402857	0.040936
369	2.975676	7.402857	0.017544
370	3.016216	7.417143	0.002924
371	3.016216	7.474286	0.026316
372	3.002703	7.474286	0.002924
373	2.948649	7.46	0.055556
374	2.962162	7.431429	0.002924
375	3.002703	7.417143	0.017544
376	2.975676	7.431429	0.032164
377	2.989189	7.36	0.032164
378	2.989189	7.388571	0.032164
379	2.989189	7.445714	0.002924
380	3.002703	7.431429	0.061404
381	3.002703	7.431429	0.076023
382	2.989189	7.502857	0.061404
383	2.975676	7.488571	0.061404
384	2.948649	7.502857	0.076023
385	2.935135	7.46	0.076023
386	2.921622	7.445714	0.046784
387	2.948649	7.488571	0.061404
388	2.948649	7.531429	0.090643
389	2.935135	7.517143	0.090643
390	2.921622	7.488571	0.090643
391	2.908108	7.502857	0.105263
392	2.935135	7.531429	0.149123
393	2.975676	7.517143	0.119883
394	2.948649	7.517143	0.149123
395	2.962162	7.474286	0.119883
396	2.962162	7.445714	0.105263
397	2.948649	7.474286	0.090643
398	2.894595	7.488571	0.090643
399	2.854054	7.474286	0.105263
400	2.908108	7.488571	0.119883
401	2.962162	7.531429	0.163743
402	2.935135	7.56	0.163743
403	2.908108	7.545714	0.119883
404	2.894595	7.517143	0.149123

405	2.894595	7.517143	0.149123
406	2.894595	7.445714	0.105263
407	2.881081	7.517143	0.119883
408	2.867568	7.602857	0.192982
409	2.935135	7.588571	0.207602
410	2.948649	7.545714	0.251462
411	2.935135	7.474286	0.236842
412	2.881081	7.502857	0.192982
413	2.840541	7.531429	0.222222
414	2.840541	7.531429	0.266082
415	2.827027	7.474286	0.236842
416	2.827027	7.56	0.295322
417	2.8	7.545714	0.280702
418	2.867568	7.531429	0.192982
419	2.881081	7.574286	0.178363
420	2.867568	7.474286	0.266082
421	2.854054	7.488571	0.353801
422	2.881081	7.502857	0.339181
423	2.867568	7.502857	0.295322
424	2.840541	7.588571	0.295322
425	2.840541	7.56	0.324561
426	2.881081	7.517143	0.339181
427	2.854054	7.531429	0.324561
428	2.867568	7.588571	0.339181
429	2.867568	7.574286	0.353801
430	2.881081	7.517143	0.280702
431	2.881081	7.545714	0.266082
432	2.894595	7.531429	0.324561
433	2.867568	7.545714	0.353801
434	2.8	7.56	0.324561
435	2.840541	7.631429	0.383041
436	2.881081	7.574286	0.397661
437	2.881081	7.531429	0.339181
438	2.827027	7.545714	0.339181
439	2.827027	7.488571	0.397661
440	2.867568	7.474286	0.339181
441	2.867568	7.474286	0.412281
442	2.813514	7.502857	0.44152
443	2.8	7.502857	0.412281
444	2.772973	7.617143	0.426901
445	2.827027	7.56	0.44152
446	2.854054	7.631429	0.5
447	2.827027	7.602857	0.397661
448	2.813514	7.631429	0.45614
449	2.813514	7.545714	0.45614

450	2.813514	7.588571	0.412281
451	2.813514	7.631429	0.45614
452	2.786486	7.574286	0.47076
453	2.8	7.56	0.5
454	2.827027	7.545714	0.5
455	2.813514	7.588571	0.52924
456	2.759459	7.56	0.52924
457	2.745946	7.502857	0.54386
458	2.8	7.545714	0.616959
459	2.840541	7.56	0.602339
460	2.840541	7.531429	0.602339
461	2.786486	7.488571	0.55848
462	2.827027	7.545714	0.573099
463	2.786486	7.531429	0.55848
464	2.786486	7.588571	0.54386
465	2.745946	7.645714	0.573099
466	2.718919	7.56	0.55848
467	2.732432	7.502857	0.573099
468	2.759459	7.545714	0.616959
469	2.759459	7.531429	0.573099
470	2.745946	7.588571	0.573099
471	2.718919	7.674286	0.573099
472	2.732432	7.674286	0.55848
473	2.732432	7.631429	0.573099
474	2.772973	7.66	0.616959
475	2.759459	7.56	0.631579
476	2.745946	7.631429	0.602339
477	2.732432	7.588571	0.602339
478	2.745946	7.545714	0.616959
479	2.772973	7.56	0.675439
480	2.759459	7.602857	0.733918
481	2.745946	7.631429	0.719298
482	2.759459	7.602857	0.704678
483	2.759459	7.631429	0.690058
484	2.732432	7.602857	0.690058
485	2.705405	7.588571	0.748538
486	2.718919	7.617143	0.748538
487	2.772973	7.66	0.704678
488	2.745946	7.588571	0.690058
489	2.705405	7.56	0.704678
490	2.718919	7.545714	0.763158
491	2.732432	7.56	0.777778
492	2.718919	7.574286	0.748538
493	2.732432	7.56	0.763158
494	2.718919	7.56	0.748538

495	2.705405	7.531429	0.748538
496	2.732432	7.56	0.748538
497	2.691892	7.531429	0.763158
498	2.732432	7.517143	0.777778
499	2.732432	7.502857	0.807018
500	2.705405	7.531429	0.792398
501	2.732432	7.531429	0.807018
502	2.705405	7.531429	0.850877
503	2.678378	7.545714	0.850877
504	2.651351	7.488571	0.836257
505	2.664865	7.517143	0.836257
506	2.705405	7.474286	0.850877
507	2.664865	7.531429	0.850877
508	2.664865	7.531429	0.850877
509	2.624324	7.531429	0.807018
510	2.637838	7.602857	0.821637
511	2.691892	7.56	0.850877
512	2.691892	7.517143	0.850877
513	2.664865	7.574286	0.777778
514	2.651351	7.56	0.836257
515	2.678378	7.531429	0.865497
516	2.637838	7.517143	0.865497
517	2.637838	7.545714	0.850877
518	2.664865	7.617143	0.865497
519	2.664865	7.617143	0.880117
520	2.664865	7.631429	0.880117
521	2.651351	7.588571	0.894737
522	2.624324	7.574286	0.894737
523	2.624324	7.588571	0.953216
524	2.637838	7.56	0.909357
525	2.637838	7.545714	0.909357
526	2.597297	7.56	0.923977
527	2.610811	7.574286	0.923977
528	2.651351	7.545714	0.836257
529	2.678378	7.56	0.894737
530	2.651351	7.645714	0.923977
531	2.664865	7.574286	0.880117
532	2.651351	7.574286	0.880117
533	2.610811	7.602857	0.953216
534	2.597297	7.617143	0.938596
535	2.624324	7.545714	0.909357
536	2.597297	7.531429	0.909357
537	2.597297	7.588571	0.997076
538	2.637838	7.588571	0.953216
539	2.597297	7.574286	0.967836

540	2.597297	7.588571	0.982456
541	2.543243	7.56	0.967836
542	2.556757	7.488571	0.938596
543	2.57027	7.517143	0.982456
544	2.583784	7.531429	1.040936
545	2.583784	7.545714	0.997076
546	2.597297	7.56	0.967836
547	2.597297	7.531429	0.953216
548	2.597297	7.574286	0.909357
549	2.624324	7.588571	0.982456
550	2.610811	7.631429	1.040936
551	2.57027	7.617143	1.026316
552	2.543243	7.588571	1.011696
553	2.52973	7.574286	0.982456
554	2.57027	7.517143	1.011696

7.2 Higher RH Experimental Data

HigherRH_exp_1

Experiment type: Higher humidity experiment. This experiment consisted of just an empty petridish. The two humidity buffers were NaCl which have a RH of 75% at 0 degrees Celsius.

Chiller was set to - 15°C. Temperature around the sample was controlled by the chiller. The pressure ranged from 5.5-6.2 mbar. The thermocouples stopped recording during the experiment.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= atmosphere 3= humidity buffer 4= sample

Mass		RH				T				
Min.	Mass	Min.	Ch02	Ch03	Ch04	Min.	Ch01	Ch02	Ch03	Ch04
0	243.03	0	19.63352	21.75147	18.39564	0	8.63	-2	-7.04	-9.87
2	243.05	1	19.78977	22.86693	18.30218	1	8.16	-1.35	-6.89	-9.95
4	242.81	2	20.01705	23.22896	18.45794	2	6.36	-1.18	-6.79	-9.91
6	242.29	3	20.08807	22.85714	17.75701	3	-1.21	-4.23	-8.5	-10.76
8	242.05	4	19.71875	21.29159	15.99688	4	-8.48	-6.73	-10.61	-10.72
10	242.07	5	19.8608	20.03914	14.70405	5	-3.86	-5.08	-10.1	-10.15
12	242.08	6	20.55682	19.62818	14.29907	6	-1.84	-4.13	-9.3	-10.06
14	242.09	7	20.68466	18.74755	14.1433	7	-1.11	-3.55	-8.24	-10.05
16	242.09	8	19.2358	17.66145	13.70717	8	-0.26	-3	-7.41	-10

18	242.09	9	16.33807	17.19178	13.00623	9	1.59	-2.49	-7.08	-9.97
20	242.09	10	13.36932	17.47554	12.27414	10	2.86	-2.18	-6.99	-9.93
22	242.1	11	11.49432	17.87671	11.85358	11	3.72	-1.98	-6.99	-9.89
24	242.09	12	10.59943	18.18004	11.93146	12	4.28	-1.82	-7.02	-9.86
26	242.09	13	10.21591	18.37573	12.18069	13	4.6	-1.69	-7.08	-9.84
28	242.09	14	10.10227	18.50294	12.44548	14	4.73	-1.58	-7.17	-9.82
30	242.09	15	10.10227	18.591	12.57009	15	4.8	-1.5	-7.27	-9.81
32	242.09	16	10.08807	18.64971	12.55452	16	4.86	-1.41	-7.31	-9.79
34	242.09	17	10.05966	18.64971	12.55452	17	4.88	-1.34	-7.34	-9.79
36	242.08	18	10.10227	18.67906	12.52336	18	4.9	-1.26	-7.35	-9.78
38	242.09	19	10.07386	18.7182	12.52336	19	4.94	-1.16	-7.34	-9.75
40	242.08	20	10.03125	18.72798	12.50779	20	4.97	-1.08	-7.34	-9.72
42	242.08	21	10.01705	18.74755	12.47664	21	5	-1	-7.37	-9.7
44	242.08	22	9.960227	18.77691	12.41433	22	5.03	-0.92	-7.42	-9.69
46	242.08	23	9.903409	18.83562	12.42991	23	5.03	-0.86	-7.47	-9.68
48	242.08	24	9.889205	18.88454	12.39875	24	5.04	-0.8	-7.47	-9.67
50	242.08	25	9.889205	18.91389	12.33645	25	5.05	-0.76	-7.49	-9.67
52	242.08	26	9.903409	18.95303	12.24299	26	5.06	-0.7	-7.53	-9.66
54	242.08	27	9.931818	18.9726	12.11838	27	5.06	-0.66	-7.56	-9.66
56	242.08	28	9.860795	18.98239	11.91589	28	5.06	-0.62	-7.75	-9.66
58	242.08	29	9.832386	19.06067	11.82243	29	5.06	-0.58	-7.81	-9.65
60	242.08	30	9.803977	19.09002	11.74455	30	5.07	-0.53	-7.8	-9.65
62	242.08	31	9.818182	19.13894	11.69782	31	5.07	-0.49	-7.8	-9.63
64	242.08	32	9.818182	19.15851	11.65109	32	5.07	-0.45	-7.81	-9.62
66	242.08	33	9.789773	19.22701	11.61994	33	5.07	-0.4	-7.83	-9.61
68	242.08	34	9.789773	19.27593	11.61994	34	5.09	-0.35	-7.81	-9.58
70	242.08	35	9.761364	19.31507	11.5109	35	5.1	-0.31	-7.86	-9.56
72	242.08	36	9.775568	19.32485	11.40187	36	5.11	-0.27	-7.99	-9.55
74	242.08	37	9.747159	19.32485	11.27726	37	5.12	-0.23	-7.97	-9.53
76	242.08	38	9.732955	19.27593	11.13707	38	5.13	-0.19	-7.99	-9.51
78	242.08	39	9.661932	19.33464	10.99688	39	5.15	-0.14	-8.06	-9.49
80	242.08	40	9.605114	19.38356	10.90343	40	5.16	-0.11	-8.12	-9.48
82	242.08	41	9.633523	19.46184	10.73209	41	5.17	-0.07	-8.08	-9.46
84	242.08	42	9.633523	19.52055	10.5919	42	5.18	-0.03	-8.1	-9.45
86	242.08	43	9.605114	19.54012	10.56075	43	5.2	0.01	-8.11	-9.43
88	242.08	44	9.605114	19.48141	10.46729	44	5.21	0.04	-8.12	-9.42
90	242.08	45	9.605114	19.44227	10.28037	45	5.22	0.08	-8.13	-9.4
92	242.08	46	9.534091	19.38356	10.06231	46	5.24	0.12	-8.14	-9.38
94	242.08	47	9.434659	19.28571	9.813084	47	5.28	0.15	-8.18	-9.37
96	242.08	48	9.335227	19.21722	9.610592	48	5.31	0.18	-8.31	-9.37
98	242.08	49	9.264205	19.17808	9.485981	49	5.34	0.22	-8.37	-9.35
100	242.08	50	9.207386	19.19765	9.361371	50	5.36	0.25	-8.35	-9.32
102	242.08	51	9.178977	19.14873	9.252336	51	5.37	0.29	-8.33	-9.3
104	242.08	52	9.09375	19.09002	9.080997	52	5.39	0.33	-8.28	-9.26
106	242.07	53	9.051136	19.02153	8.909657	53	5.41	0.36	-8.33	-9.23

108	242.07	54	8.980114	18.98239	8.785047	54	5.42	0.39	-8.33	-9.2
110	242.07	55	8.909091	18.94325	8.64486	55	5.44	0.42	-8.28	-9.17
112	242.07	56	8.880682	18.87476	8.489097	56	5.45	0.45	-8.26	-9.15
114	242.07	57	8.866477	18.80626	8.286604	57	5.46	0.48	-8.26	-9.13
116	242.07	58	8.823864	18.75734	8.05296	58	5.47	0.51	-8.26	-9.12
118	242.07	59	8.738636	18.70841	7.866044	59	5.49	0.54	-8.25	-9.09
120	242.07	60	8.653409	18.591	7.725857	60	5.5	0.57	-8.25	-9.06
122	242.07	61	8.539773	18.45401	7.58567	61	5.51	0.61	-8.22	-9.03
124	242.07	62	8.46875	18.33659	7.398754	62	5.52	0.62	-8.24	-9.01
126	242.07	63	8.326705	18.19961	7.149533	63	5.52	0.65	-8.3	-8.98
128	242.07	64	8.184659	18.03327	6.931464	64	5.53	0.68	-8.35	-8.95
130	242.08	65	8.085227	17.85714	6.760125	65	5.54	0.7	-8.38	-8.93
132	242.07	66	7.985795	17.70059	6.682243	66	5.55	0.73	-8.4	-8.9
134	242.07	67	7.872159	17.50489	6.52648	67	5.55	0.75	-8.4	-8.88
136	242.07	68	7.801136	17.3092	6.277259	68	5.57	0.78	-8.36	-8.85
138	242.07	69	7.6875	17.12329	6.105919	69	5.58	0.81	-8.31	-8.82
140	242.07	70	7.502841	16.92759	6.012461	70	5.58	0.83	-8.28	-8.8
142	242.08	71	7.389205	16.74168	5.841121	71	5.58	0.85	-8.27	-8.78
144	242.07	72	7.275568	16.5362	5.685358	72	5.59	0.87	-8.23	-8.76
146	242.07	73	7.176136	16.31115	5.498442	73	5.59	0.89	-8.23	-8.75
148	242.07	74	7.0625	16.1546	5.29595	74	5.6	0.92	-8.22	-8.72
150	242.07	75	6.920455	15.98826	5.124611	75	5.61	0.94	-8.19	-8.7
152	242.07	76	6.778409	15.74364	5	76	5.62	0.97	-8.16	-8.68
154	242.07	77	6.636364	15.49902	4.890966	77	5.63	0.98	-8.15	-8.66
156	242.07	78	6.480114	15.24462	4.719626	78	5.62	1	-8.23	-8.65
158	242.07	79	6.352273	15	4.579439	79	5.63	1.02	-8.21	-8.63
160	242.07	80	6.252841	14.78474	4.4081	80	5.64	1.05	-8.17	-8.61
162	242.07	81	6.096591	14.5499	4.221184	81	5.65	1.07	-8.16	-8.59
164	242.07	82	5.940341	14.31507	4.065421	82	5.65	1.09	-8.14	-8.57
166	242.07	83	5.798295	14.0998	3.894081	83	5.66	1.11	-8.11	-8.55
168	242.07	84	5.713068	13.89432	3.738318	84	5.67	1.13	-8.06	-8.53
170	242.11	85	5.599432	13.69863	3.629283	85	5.67	1.15	-7.98	-8.52
172	242.07	86	5.428977	13.48337	3.426791	86	5.67	1.16	-7.95	-8.5
174	242.07	87	5.329545	13.28767	3.271028	87	5.68	1.18	-8.04	-8.48
176	242.07	88	5.230114	13.09198	3.193146	88	5.67	1.19	-8.02	-8.47
178	242.07	89	5.116477	12.8865	3.068536	89	5.67	1.21	-8.08	-8.46
180	242.07	90	4.988636	12.70059	2.928349	90	5.68	1.23	-8.12	-8.44
182	242.07	91	4.818182	12.53425	2.803738	91	5.69	1.25	-8.12	-8.42
184	242.07	92	4.71875	12.36791	2.694704	92	5.69	1.27	-8.12	-8.41
186	242.07	93	4.676136	12.20157	2.538941	93	5.69	1.28	-8.09	-8.4
188	242.07	94	4.5625	12.06458	2.445483	94	5.69	1.3	-8.09	-8.38
190	242.07	95	4.434659	11.89824	2.305296	95	5.7	1.32	-8.12	-8.36
192	242.07	96	4.306818	11.69276	2.196262	96	5.7	1.33	-8.08	-8.35
194	242.07	97	4.178977	11.52642	2.040498	97	5.71	1.35	-8.04	-8.33
196	242.07	98	4.079545	11.38943	1.869159	98	5.71	1.37	-8.01	-8.31

198	242.07	99	4.022727	11.25245	1.744548	99	5.71	1.38	-7.91	-8.3
200	242.08	100	3.9375	11.11546	1.635514	100	5.71	1.39	-7.77	-8.29
202	242.07	101	3.838068	10.96869	1.557632	101	5.72	1.42	-7.51	-8.26
204	242.07	102	3.752841	10.81213	1.448598	102	5.72	1.43	-7.3	-8.25
206	242.08	103	3.610795	10.66536	1.417445	103	5.71	1.44	-7.12	-8.24
208	242.07	104	3.482955	10.50881	1.292835	104	5.72	1.45	-7.02	-8.23
210	242.07	105	3.369318	10.29354	1.121495	105	5.72	1.47	-6.96	-8.2
212	242.08	106	3.3125	10.06849	1.012461	106	5.71	1.49	-6.93	-8.19
214	242.07	107	3.227273	9.921722	0.919003					
216	242.07	108	3.170455	9.823875	0.841121					
218	242.07	109	3.042614	9.667319	0.716511					
220	242.07	110	2.886364	9.559687	0.576324					
222	242.08	111	2.801136	9.510763	0.451713					
224	242.07	112	2.730114	9.452055	0.342679					
226	242.07	113	2.701705	9.432485	0.29595					
228	242.08	114	2.659091	9.403131	0.186916					
230	242.07	115	2.573864	9.373777	0.218069					
232	242.07	116	2.559659	9.373777	0.202492					
234	242.08	117	2.602273	9.324853	0.202492					
236	242.08	118	2.559659	9.305284	0.17134					
238	242.07	119	2.545455	9.27593	0.109034					
240	242.1	120	2.53125	9.266145	0.046729					
242	242.08	121	2.53125	9.227006	0.077882					
244	242.07	122	2.474432	9.246575	0.031153					
246	242.07	123	2.460227	9.227006	0.031153					
248	242.07	124	2.488636	9.197652	0.015576					
250	242.08	125	2.460227	9.187867	0.031153					
252	242.07	126	2.460227	9.168297	0.015576					
254	242.07	127	2.460227	9.178082	0.062305					
256	242.08	128	2.446023	9.148728	0.109034					
258	242.07	129	2.431818	9.138943	0.015576					
260	242.07	130	2.446023	9.099804	0.046729					
262	242.07	131	2.389205	9.09002	0.077882					
264	242.08	132	2.360795	9.09002	0.093458					
266	242.08	133	2.403409	9.07045	0.140187					
268	242.07	134	2.446023	9.109589	0.155763					
270	242.07	135	2.474432	9.119374	0.218069					
272	242.08	136	2.417614	9.080235	0.218069					
274	242.08	137	2.403409	9.031311	0.186916					
276	242.08	138	2.389205	9.09002	0.218069					
278	242.08	139	2.403409	9.129159	0.186916					
280	242.07	140	2.403409	9.099804	0.218069					
282	242.08	141	2.417614	9.080235	0.249221					
284	242.08	142	2.375	9.07045	0.249221					
286	242.08	143	2.346591	9.041096	0.249221					

288	242.08	144	2.375	9.129159	0.186916
290	242.08	145	2.375	9.138943	0.218069
292	242.08	146	2.332386	9.099804	0.264798
294	242.11	147	2.332386	9.041096	0.311526
296	242.08	148	2.375	9.060665	0.264798
298	242.08	149	2.403409	9.119374	0.218069
300	242.07	150	2.375	9.050881	0.249221
302	242.07	151	2.360795	9.031311	0.342679
304	242.07	152	2.360795	9.07045	0.29595
306	242.08	153	2.375	9.099804	0.264798
308	242.07	154	2.389205	9.050881	0.280374
310	242.08	155	2.403409	9.050881	0.311526
312	242.08	156	2.431818	9.080235	0.264798
314	242.07	157	2.417614	9.060665	0.218069
316	242.08	158	2.403409	9.031311	0.29595
318	242.08	159	2.375	9.080235	0.29595
320	242.08	160	2.403409	9.050881	0.264798
322	242.07	161	2.403409	9.021526	0.327103
324	242.08	162	2.375	9.050881	0.404984
326	242.08	163	2.375	9.080235	0.389408
328	242.08	164	2.403409	9.021526	0.389408
330	242.08	165	2.389205	9.07045	0.358255
332	242.08	166	2.389205	9.080235	0.342679
334	242.08	167	2.375	9.041096	0.373832
336	242.08	168	2.403409	9.080235	0.389408
338	242.08	169	2.417614	9.099804	0.373832
340	242.08	170	2.375	9.041096	0.373832
342	242.08	171	2.346591	9.07045	0.404984
344	242.08	172	2.389205	9.119374	0.389408
346	242.07	173	2.389205	9.060665	0.389408
348	242.08	174	2.403409	9.099804	0.358255
350	242.08	175	2.431818	9.138943	0.327103
352	242.08	176	2.403409	9.099804	0.342679
354	242.08	177	2.360795	9.109589	0.404984
356	242.08	178	2.417614	9.129159	0.389408
358	242.08	179	2.389205	9.109589	0.358255
360	242.08	180	2.431818	9.148728	0.327103
362	242.08	181	2.431818	9.129159	0.342679
364	242.08	182	2.389205	9.119374	0.358255
366	242.08	183	2.417614	9.158513	0.327103
368	242.08	184	2.431818	9.138943	0.358255
370	242.08	185	2.417614	9.109589	0.373832
372	242.08	186	2.403409	9.138943	0.358255
374	242.08	187	2.431818	9.148728	0.373832
376	242.08	188	2.431818	9.148728	0.404984

378	242.08	189	2.403409	9.178082	0.404984
380	242.08	190	2.446023	9.109589	0.404984
382	242.08	191	2.488636	9.148728	0.342679
384	242.08	192	2.488636	9.129159	0.327103
386	242.08	193	2.488636	9.168297	0.327103
388	242.08	194	2.488636	9.158513	0.389408
390	242.08	195	2.446023	9.158513	0.420561
392	242.08	196	2.431818	9.178082	0.404984
394	242.08	197	2.431818	9.168297	0.358255
396	242.08	198	2.403409	9.148728	0.389408
398	242.08	199	2.431818	9.158513	0.420561
400	242.13	200	2.474432	9.187867	0.389408
402	242.08	201	2.474432	9.148728	0.420561
404	242.08	202	2.488636	9.148728	0.373832
406	242.08	203	2.517045	9.207436	0.389408
408	242.08	204	2.488636	9.197652	0.404984
410	242.08	205	2.502841	9.266145	0.358255
412	242.08	206	2.53125	9.227006	0.389408
414	242.08	207	2.517045	9.168297	0.420561
416	242.08	208	2.502841	9.236791	0.404984
418	242.08	209	2.559659	9.217221	0.342679
420	242.08	210	2.517045	9.217221	0.404984
422	242.12	211	2.502841	9.236791	0.358255
424	242.08	212	2.502841	9.236791	0.420561
426	242.08	213	2.502841	9.197652	0.498442
428	242.08	214	2.517045	9.236791	0.46729
430	242.08	215	2.573864	9.207436	0.420561
432	242.08	216	2.53125	9.197652	0.420561
434	242.19	217	2.545455	9.236791	0.389408
436	242.08	218	2.559659	9.266145	0.373832
438	242.08	219	2.517045	9.27593	0.327103
440	242.08	220	2.502841	9.236791	0.404984
442	242.08	221	2.517045	9.236791	0.436137
444	242.08	222	2.517045	9.266145	0.389408
446	242.08	223	2.53125	9.27593	0.420561
448	242.08	224	2.517045	9.285714	0.389408
450	242.08	225	2.559659	9.27593	0.358255
452	242.08	226	2.53125	9.227006	0.389408
454	242.08	227	2.517045	9.27593	0.389408
456	242.09	228	2.517045	9.305284	0.358255
458	242.08	229	2.53125	9.27593	0.436137
460	242.08	230	2.502841	9.27593	0.436137
462	242.08	231	2.559659	9.266145	0.342679
464	242.09	232	2.559659	9.217221	0.373832
466	242.08	233	2.53125	9.236791	0.404984

468	242.08	234	2.517045	9.227006	0.451713
470	242.08	235	2.517045	9.246575	0.451713
472	242.09	236	2.559659	9.315068	0.389408
474	242.09	237	2.573864	9.295499	0.389408
476	242.08	238	2.545455	9.246575	0.436137
478	242.08	239	2.53125	9.27593	0.451713
480	242.08	240	2.53125	9.27593	0.451713
482	242.08	241	2.517045	9.236791	0.46729
484	242.12	242	2.53125	9.27593	0.436137
486	242.09	243	2.573864	9.295499	0.420561
488	242.08	244	2.53125	9.285714	0.46729
490	242.08	245	2.559659	9.315068	0.420561
492	242.08	246	2.559659	9.315068	0.451713
494	242.09	247	2.616477	9.334638	0.451713
496	242.09	248	2.545455	9.305284	0.46729
498	242.08	249	2.588068	9.295499	0.46729
500	242.08	250	2.616477	9.334638	0.498442
502	242.08	251	2.616477	9.324853	0.498442
504	242.08	252	2.602273	9.27593	0.451713
506	242.09	253	2.573864	9.285714	0.46729
508	242.08	254	2.573864	9.334638	0.46729
510	242.08	255	2.559659	9.334638	0.420561
512	242.08	256	2.545455	9.334638	0.436137
514	242.08	257	2.602273	9.315068	0.420561
516	242.08	258	2.545455	9.334638	0.451713
518	242.08	259	2.545455	9.334638	0.420561
520	242.09	260	2.545455	9.344423	0.420561
522	242.09	261	2.588068	9.363992	0.436137
524	242.08	262	2.602273	9.344423	0.436137
526	242.08	263	2.644886	9.344423	0.389408
528	242.08	264	2.630682	9.334638	0.420561
530	242.08	265	2.602273	9.305284	0.451713
532	242.08	266	2.573864	9.373777	0.389408
534	242.08	267	2.588068	9.354207	0.404984
536	242.12	268	2.588068	9.344423	0.436137
538	242.09	269	2.644886	9.373777	0.373832
540	242.09	270	2.630682	9.344423	0.404984
542	242.08	271	2.602273	9.315068	0.420561
544	242.08	272	2.630682	9.363992	0.436137
546	242.09	273	2.616477	9.363992	0.389408
548	242.09	274	2.616477	9.354207	0.342679
550	242.09	275	2.630682	9.354207	0.420561
552	242.08	276	2.616477	9.373777	0.436137
554	242.08	277	2.630682	9.344423	0.451713
556	242.09	278	2.616477	9.373777	0.436137

558	242.09	279	2.588068	9.363992	0.373832
560	242.08	280	2.602273	9.354207	0.373832
562	242.08	281	2.630682	9.344423	0.404984
564	242.12	282	2.630682	9.334638	0.436137
566	242.09	283	2.588068	9.334638	0.451713
568	242.09	284	2.602273	9.354207	0.436137
570	242.09	285	2.616477	9.334638	0.436137
572	242.08	286	2.588068	9.315068	0.420561
574	242.09	287	2.644886	9.334638	0.420561
576	242.09	288	2.630682	9.315068	0.451713
578	242.09	289	2.573864	9.334638	0.436137
580	242.08	290	2.616477	9.373777	0.389408
582	242.13	291	2.630682	9.393346	0.342679
584	242.09	292	2.588068	9.383562	0.342679
586	242.09	293	2.602273	9.393346	0.342679
588	242.08	294	2.602273	9.354207	0.404984
590	242.08	295	2.559659	9.363992	0.482866
592	242.08	296	2.616477	9.403131	0.373832
594	242.08	297	2.588068	9.363992	0.389408
596	242.08	298	2.602273	9.315068	0.436137
598	242.09	299	2.616477	9.344423	0.389408
600	242.08	300	2.616477	9.315068	0.404984
602	242.09	301	2.616477	9.344423	0.420561
604	242.09	302	2.616477	9.383562	0.404984
606	242.09	303	2.630682	9.393346	0.373832
608	242.08	304	2.616477	9.363992	0.404984
610	242.09	305	2.644886	9.393346	0.389408
612	242.08	306	2.630682	9.393346	0.420561
614	242.08	307	2.630682	9.412916	0.420561
616	242.09	308	2.630682	9.403131	0.436137
618	242.08	309	2.673295	9.422701	0.451713
620	242.09	310	2.701705	9.44227	0.451713
622	242.09	311	2.6875	9.412916	0.451713
624	242.09	312	2.6875	9.412916	0.389408
626	242.09	313	2.6875	9.412916	0.342679
628	242.09	314	2.673295	9.373777	0.420561
630	242.09	315	2.644886	9.393346	0.389408
632	242.08	316	2.630682	9.403131	0.373832
634	242.08	317	2.616477	9.393346	0.436137
636	242.09	318	2.659091	9.393346	0.420561
638	242.09	319	2.659091	9.373777	0.389408
640	242.09	320	2.644886	9.403131	0.420561
642	242.09	321	2.659091	9.432485	0.389408
644	242.09	322	2.616477	9.412916	0.358255
646	242.09	323	2.616477	9.432485	0.436137

648	242.09	324	2.673295	9.422701	0.404984
650	242.09	325	2.644886	9.412916	0.404984
652	242.13	326	2.644886	9.46184	0.389408
654	242.09	327	2.6875	9.452055	0.373832
656	242.09	328	2.6875	9.422701	0.373832
658	242.09	329	2.715909	9.403131	0.358255
660	242.09	330	2.715909	9.422701	0.420561
662	242.09	331	2.715909	9.412916	0.327103
664	242.09	332	2.673295	9.412916	0.373832
666	242.09	333	2.673295	9.403131	0.373832
668	242.09	334	2.701705	9.383562	0.404984
670	242.12	335	2.730114	9.403131	0.389408
672	242.09	336	2.673295	9.432485	0.389408
674	242.09	337	2.659091	9.432485	0.389408
676	242.09	338	2.644886	9.373777	0.420561
678	242.09	339	2.701705	9.412916	0.436137
680	242.09	340	2.673295	9.422701	0.46729
682	242.09	341	2.630682	9.422701	0.514019
684	242.09	342	2.6875	9.44227	0.420561
686	242.09	343	2.6875	9.422701	0.373832
688	242.09	344	2.630682	9.452055	0.404984
690	242.09	345	2.673295	9.44227	0.311526
692	242.09	346	2.673295	9.412916	0.404984
694	242.09	347	2.6875	9.432485	0.436137
696	242.09	348	2.715909	9.432485	0.373832
698	242.09	349	2.730114	9.403131	0.436137
700	242.16	350	2.6875	9.44227	0.389408
702	242.09	351	2.673295	9.44227	0.342679
704	242.09	352	2.6875	9.422701	0.420561
706	242.09	353	2.673295	9.452055	0.342679
708	242.09	354	2.6875	9.422701	0.389408
710	242.09	355	2.6875	9.44227	0.46729
712	242.09	356	2.6875	9.481409	0.404984
714	242.09	357	2.6875	9.432485	0.389408
716	242.09	358	2.6875	9.452055	0.404984
718	242.09	359	2.6875	9.452055	0.342679
720	242.09	360	2.6875	9.432485	0.358255
722	242.09	361	2.715909	9.471624	0.358255
724	242.09	362	2.730114	9.452055	0.373832
726	242.09	363	2.715909	9.412916	0.389408
728	242.09	364	2.744318	9.422701	0.358255
730	242.13	365	2.715909	9.412916	0.404984
732	242.09	366	2.6875	9.412916	0.482866
734	242.09	367	2.730114	9.432485	0.404984
736	242.09	368	2.730114	9.403131	0.46729

738	242.09	369	2.730114	9.44227	0.451713
740	242.09	370	2.730114	9.422701	0.404984
742	242.09	371	2.701705	9.403131	0.451713
744	242.09	372	2.758523	9.46184	0.451713
746	242.09	373	2.758523	9.44227	0.436137
748	242.09	374	2.730114	9.432485	0.420561
750	242.13	375	2.758523	9.432485	0.404984
752	242.09	376	2.744318	9.412916	0.436137
754	242.09	377	2.673295	9.432485	0.46729
756	242.09	378	2.730114	9.491194	0.342679
758	242.09	379	2.730114	9.432485	0.404984
760	242.09	380	2.730114	9.452055	0.482866
762	242.12	381	2.744318	9.46184	0.420561
764	242.09	382	2.730114	9.471624	0.327103
766	242.09	383	2.758523	9.491194	0.342679
768	242.09	384	2.730114	9.452055	0.358255
770	242.09	385	2.730114	9.46184	0.389408
772	242.09	386	2.715909	9.46184	0.327103
774	242.09	387	2.758523	9.46184	0.280374
776	242.09	388	2.744318	9.432485	0.373832
778	242.09	389	2.744318	9.44227	0.373832
780	242.09	390	2.730114	9.452055	0.373832
782	242.09	391	2.801136	9.471624	0.342679
784	242.09	392	2.786932	9.481409	0.358255
786	242.09	393	2.772727	9.471624	0.342679
788	242.09	394	2.786932	9.452055	0.327103
790	242.09	395	2.815341	9.412916	0.389408
792	242.09	396	2.801136	9.393346	0.358255
794	242.09	397	2.801136	9.403131	0.373832
796	242.09	398	2.786932	9.422701	0.436137
798	242.09	399	2.772727	9.471624	0.404984
800	242.09	400	2.744318	9.471624	0.404984
802	242.09	401	2.758523	9.471624	0.46729
804	242.12	402	2.815341	9.471624	0.420561
806	242.09	403	2.772727	9.452055	0.436137
		404	2.730114	9.481409	0.436137
		405	2.772727	9.46184	0.436137
		406	2.786932	9.432485	0.46729
		407	2.815341	9.452055	0.389408
		408	2.829545	9.481409	0.404984
		409	2.815341	9.481409	0.404984
		410	2.786932	9.471624	0.404984
		411	2.758523	9.471624	0.389408
		412	2.758523	9.432485	0.342679
		413	2.758523	9.422701	0.358255

414	2.786932	9.432485	0.358255
415	2.801136	9.481409	0.373832
416	2.829545	9.481409	0.29595
417	2.801136	9.452055	0.327103
418	2.786932	9.44227	0.389408
419	2.815341	9.44227	0.389408
420	2.786932	9.432485	0.404984
421	2.758523	9.491194	0.404984
422	2.730114	9.471624	0.420561
423	2.744318	9.481409	0.389408
424	2.758523	9.481409	0.358255
425	2.744318	9.491194	0.404984
426	2.801136	9.471624	0.420561
427	2.786932	9.432485	0.420561
428	2.786932	9.471624	0.373832
429	2.84375	9.432485	0.342679
430	2.857955	9.452055	0.373832
431	2.872159	9.46184	0.373832
432	2.815341	9.471624	0.482866
433	2.829545	9.491194	0.46729
434	2.829545	9.491194	0.436137
435	2.801136	9.491194	0.436137
436	2.815341	9.520548	0.404984
437	2.758523	9.471624	0.420561
438	2.730114	9.481409	0.373832
439	2.744318	9.491194	0.358255
440	2.772727	9.432485	0.404984
441	2.772727	9.44227	0.436137
442	2.730114	9.422701	0.498442
443	2.715909	9.452055	0.420561
444	2.772727	9.452055	0.373832
445	2.829545	9.46184	0.404984
446	2.829545	9.471624	0.404984
447	2.801136	9.471624	0.404984
448	2.786932	9.471624	0.436137
449	2.758523	9.452055	0.46729
450	2.758523	9.481409	0.436137
451	2.786932	9.44227	0.451713
452	2.829545	9.44227	0.451713
453	2.829545	9.491194	0.389408
454	2.815341	9.510763	0.436137
455	2.84375	9.510763	0.404984
456	2.84375	9.520548	0.404984
457	2.815341	9.530333	0.451713
458	2.829545	9.500978	0.389408

459	2.829545	9.491194	0.389408
460	2.786932	9.500978	0.404984
461	2.815341	9.500978	0.327103
462	2.815341	9.452055	0.389408
463	2.801136	9.491194	0.373832
464	2.829545	9.481409	0.373832
465	2.801136	9.491194	0.358255
466	2.801136	9.520548	0.373832
467	2.772727	9.471624	0.404984
468	2.758523	9.46184	0.373832
469	2.786932	9.491194	0.389408
470	2.772727	9.491194	0.373832
471	2.815341	9.510763	0.358255
472	2.829545	9.530333	0.358255
473	2.801136	9.491194	0.420561
474	2.857955	9.46184	0.389408
475	2.857955	9.44227	0.389408
476	2.786932	9.452055	0.358255
477	2.801136	9.481409	0.327103
478	2.772727	9.491194	0.389408
479	2.772727	9.500978	0.373832
480	2.801136	9.44227	0.404984
481	2.815341	9.491194	0.389408
482	2.801136	9.491194	0.358255
483	2.829545	9.481409	0.404984
484	2.815341	9.491194	0.404984
485	2.801136	9.481409	0.46729
486	2.801136	9.471624	0.358255
487	2.744318	9.46184	0.420561
488	2.786932	9.46184	0.404984
489	2.801136	9.452055	0.420561
490	2.815341	9.44227	0.436137
491	2.84375	9.500978	0.358255
492	2.84375	9.491194	0.389408
493	2.84375	9.481409	0.436137
494	2.872159	9.481409	0.373832
495	2.829545	9.471624	0.436137
496	2.84375	9.500978	0.389408
497	2.786932	9.491194	0.389408
498	2.815341	9.46184	0.46729
499	2.829545	9.481409	0.451713
500	2.815341	9.481409	0.46729
501	2.829545	9.481409	0.404984
502	2.886364	9.491194	0.404984
503	2.872159	9.46184	0.373832

504	2.801136	9.46184	0.420561
505	2.815341	9.471624	0.46729
506	2.829545	9.46184	0.451713
507	2.829545	9.510763	0.358255
508	2.815341	9.510763	0.373832
509	2.84375	9.481409	0.389408
510	2.84375	9.471624	0.420561
511	2.815341	9.46184	0.436137
512	2.829545	9.46184	0.420561
513	2.84375	9.46184	0.373832
514	2.801136	9.452055	0.404984
515	2.786932	9.452055	0.389408
516	2.829545	9.481409	0.404984
517	2.84375	9.491194	0.389408
518	2.829545	9.452055	0.389408
519	2.872159	9.481409	0.404984
520	2.857955	9.500978	0.404984
521	2.815341	9.481409	0.342679
522	2.801136	9.530333	0.342679
523	2.801136	9.549902	0.389408
524	2.801136	9.559687	0.389408
525	2.815341	9.510763	0.404984
526	2.829545	9.452055	0.389408
527	2.857955	9.46184	0.389408
528	2.857955	9.471624	0.373832
529	2.829545	9.471624	0.420561
530	2.829545	9.46184	0.46729
531	2.815341	9.500978	0.451713
532	2.829545	9.510763	0.404984
533	2.857955	9.471624	0.389408
534	2.872159	9.491194	0.46729
535	2.829545	9.481409	0.436137
536	2.815341	9.510763	0.451713
537	2.786932	9.491194	0.404984
538	2.84375	9.491194	0.358255
539	2.829545	9.471624	0.46729
540	2.829545	9.481409	0.436137
541	2.815341	9.491194	0.404984
542	2.84375	9.491194	0.420561
543	2.857955	9.500978	0.436137
544	2.829545	9.491194	0.482866
545	2.786932	9.520548	0.451713
546	2.84375	9.491194	0.436137
547	2.829545	9.520548	0.420561
548	2.786932	9.491194	0.358255

549	2.815341	9.471624	0.404984
550	2.829545	9.500978	0.389408
551	2.815341	9.520548	0.404984
552	2.815341	9.500978	0.451713
553	2.829545	9.481409	0.389408
554	2.84375	9.452055	0.46729
555	2.829545	9.471624	0.482866
556	2.84375	9.481409	0.420561
557	2.829545	9.500978	0.420561
558	2.815341	9.500978	0.389408
559	2.815341	9.500978	0.436137
560	2.829545	9.481409	0.514019
561	2.872159	9.452055	0.420561
562	2.857955	9.422701	0.420561
563	2.84375	9.452055	0.404984
564	2.84375	9.432485	0.436137
565	2.815341	9.44227	0.436137
566	2.857955	9.481409	0.404984
567	2.829545	9.491194	0.482866
568	2.801136	9.510763	0.482866
569	2.815341	9.471624	0.436137
570	2.815341	9.500978	0.404984
571	2.84375	9.549902	0.373832
572	2.857955	9.491194	0.451713
573	2.886364	9.46184	0.404984
574	2.829545	9.452055	0.389408
575	2.84375	9.46184	0.404984
576	2.84375	9.471624	0.404984
577	2.84375	9.481409	0.420561
578	2.815341	9.491194	0.436137
579	2.829545	9.510763	0.404984
580	2.815341	9.510763	0.436137
581	2.815341	9.530333	0.373832
582	2.829545	9.491194	0.420561
583	2.786932	9.510763	0.46729
584	2.815341	9.500978	0.420561
585	2.815341	9.471624	0.482866
586	2.829545	9.500978	0.46729
587	2.857955	9.481409	0.451713
588	2.84375	9.46184	0.482866
589	2.857955	9.510763	0.420561
590	2.829545	9.46184	0.436137
591	2.815341	9.520548	0.451713
592	2.829545	9.481409	0.436137
593	2.815341	9.471624	0.420561

594	2.829545	9.481409	0.404984
595	2.857955	9.510763	0.389408
596	2.815341	9.510763	0.436137
597	2.829545	9.491194	0.451713
598	2.84375	9.471624	0.420561
599	2.857955	9.520548	0.451713
600	2.829545	9.471624	0.46729
601	2.84375	9.471624	0.404984
602	2.857955	9.471624	0.436137
603	2.815341	9.452055	0.482866
604	2.872159	9.510763	0.451713
605	2.872159	9.481409	0.46729
606	2.829545	9.471624	0.451713
607	2.829545	9.471624	0.404984
608	2.815341	9.46184	0.46729
609	2.801136	9.471624	0.389408
610	2.815341	9.46184	0.451713
611	2.815341	9.452055	0.46729
612	2.829545	9.491194	0.389408
613	2.857955	9.491194	0.404984
614	2.857955	9.491194	0.482866
615	2.801136	9.500978	0.498442
616	2.815341	9.481409	0.451713
617	2.829545	9.491194	0.451713
618	2.857955	9.471624	0.46729
619	2.857955	9.481409	0.451713
620	2.84375	9.500978	0.482866
621	2.786932	9.471624	0.529595
622	2.815341	9.481409	0.498442
623	2.84375	9.432485	0.482866
624	2.801136	9.452055	0.482866
625	2.829545	9.46184	0.514019
626	2.801136	9.491194	0.404984
627	2.801136	9.520548	0.498442
628	2.815341	9.500978	0.451713
629	2.829545	9.46184	0.46729
630	2.786932	9.471624	0.46729
631	2.84375	9.471624	0.46729
632	2.829545	9.471624	0.482866
633	2.815341	9.520548	0.498442
634	2.815341	9.510763	0.451713
635	2.857955	9.500978	0.46729
636	2.857955	9.481409	0.389408
637	2.84375	9.46184	0.482866
638	2.84375	9.481409	0.498442

639	2.84375	9.471624	0.46729
640	2.84375	9.46184	0.514019
641	2.872159	9.510763	0.482866
642	2.829545	9.491194	0.514019
643	2.801136	9.520548	0.560748
644	2.801136	9.500978	0.514019
645	2.815341	9.481409	0.514019
646	2.857955	9.481409	0.514019
647	2.829545	9.471624	0.560748
648	2.84375	9.46184	0.514019
649	2.857955	9.481409	0.482866
650	2.829545	9.452055	0.498442
651	2.815341	9.44227	0.482866
652	2.829545	9.403131	0.482866
653	2.84375	9.422701	0.498442
654	2.900568	9.46184	0.451713
655	2.829545	9.46184	0.482866
656	2.815341	9.481409	0.46729
657	2.872159	9.500978	0.451713
658	2.829545	9.481409	0.498442
659	2.84375	9.432485	0.482866
660	2.84375	9.403131	0.482866
661	2.84375	9.432485	0.482866
662	2.84375	9.471624	0.436137
663	2.829545	9.491194	0.498442
664	2.829545	9.471624	0.482866
665	2.829545	9.432485	0.46729
666	2.815341	9.452055	0.529595
667	2.801136	9.44227	0.514019
668	2.829545	9.422701	0.545171
669	2.829545	9.432485	0.482866
670	2.829545	9.44227	0.46729
671	2.84375	9.452055	0.482866
672	2.872159	9.481409	0.46729
673	2.829545	9.500978	0.498442
674	2.815341	9.491194	0.498442
675	2.829545	9.46184	0.514019
676	2.829545	9.471624	0.514019
677	2.857955	9.491194	0.482866
678	2.857955	9.452055	0.482866
679	2.815341	9.432485	0.498442
680	2.829545	9.432485	0.451713
681	2.786932	9.46184	0.46729
682	2.815341	9.500978	0.451713
683	2.815341	9.46184	0.498442

684	2.815341	9.46184	0.545171
685	2.84375	9.481409	0.482866
686	2.857955	9.452055	0.498442
687	2.84375	9.46184	0.498442
688	2.857955	9.471624	0.529595
689	2.872159	9.510763	0.545171
690	2.857955	9.481409	0.482866
691	2.829545	9.452055	0.545171
692	2.872159	9.471624	0.545171
693	2.84375	9.471624	0.498442
694	2.786932	9.471624	0.46729
695	2.815341	9.481409	0.436137
696	2.786932	9.46184	0.529595
697	2.786932	9.500978	0.514019
698	2.829545	9.44227	0.529595
699	2.829545	9.422701	0.529595
700	2.84375	9.452055	0.498442
701	2.84375	9.452055	0.46729
702	2.815341	9.452055	0.482866
703	2.829545	9.432485	0.451713
704	2.84375	9.46184	0.46729
705	2.857955	9.452055	0.482866
706	2.872159	9.44227	0.514019
707	2.886364	9.44227	0.482866
708	2.872159	9.412916	0.514019
709	2.857955	9.432485	0.46729
710	2.84375	9.452055	0.545171
711	2.857955	9.44227	0.545171
712	2.857955	9.44227	0.529595
713	2.829545	9.452055	0.545171
714	2.886364	9.520548	0.498442
715	2.857955	9.491194	0.498442
716	2.815341	9.452055	0.482866
717	2.829545	9.44227	0.482866
718	2.886364	9.432485	0.46729
719	2.84375	9.432485	0.46729
720	2.84375	9.44227	0.46729
721	2.857955	9.432485	0.482866
722	2.84375	9.46184	0.529595
723	2.84375	9.481409	0.498442
724	2.84375	9.471624	0.482866
725	2.857955	9.481409	0.498442
726	2.84375	9.481409	0.498442
727	2.872159	9.471624	0.46729
728	2.84375	9.432485	0.529595

729	2.84375	9.46184	0.529595
730	2.84375	9.46184	0.529595
731	2.815341	9.432485	0.545171
732	2.815341	9.432485	0.514019
733	2.758523	9.481409	0.529595
734	2.758523	9.452055	0.498442
735	2.801136	9.432485	0.498442
736	2.84375	9.471624	0.529595
737	2.815341	9.46184	0.545171
738	2.829545	9.44227	0.514019
739	2.829545	9.481409	0.514019
740	2.829545	9.422701	0.560748
741	2.84375	9.44227	0.560748
742	2.801136	9.44227	0.545171
743	2.801136	9.412916	0.560748
744	2.801136	9.412916	0.545171
745	2.801136	9.452055	0.545171
746	2.786932	9.432485	0.545171
747	2.857955	9.46184	0.514019
748	2.857955	9.481409	0.545171
749	2.829545	9.510763	0.545171
750	2.829545	9.452055	0.529595
751	2.786932	9.46184	0.560748
752	2.829545	9.471624	0.529595
753	2.84375	9.46184	0.514019
754	2.857955	9.500978	0.514019
755	2.815341	9.491194	0.498442
756	2.829545	9.471624	0.560748
757	2.84375	9.481409	0.514019
758	2.801136	9.471624	0.514019
759	2.786932	9.491194	0.482866
760	2.829545	9.46184	0.482866
761	2.857955	9.422701	0.514019
762	2.857955	9.432485	0.482866
763	2.84375	9.452055	0.529595
764	2.801136	9.44227	0.545171
765	2.758523	9.432485	0.545171
766	2.758523	9.422701	0.514019
767	2.758523	9.46184	0.498442
768	2.815341	9.481409	0.498442
769	2.829545	9.432485	0.482866
770	2.772727	9.412916	0.498442
771	2.801136	9.44227	0.529595
772	2.801136	9.491194	0.545171
773	2.84375	9.491194	0.529595

774	2.829545	9.44227	0.560748
775	2.829545	9.452055	0.529595
776	2.815341	9.471624	0.498442
777	2.758523	9.44227	0.529595
778	2.772727	9.44227	0.529595
779	2.815341	9.422701	0.529595
780	2.786932	9.452055	0.5919
781	2.815341	9.452055	0.545171
782	2.857955	9.412916	0.529595
783	2.829545	9.422701	0.482866
784	2.829545	9.432485	0.545171
785	2.815341	9.432485	0.498442
786	2.857955	9.44227	0.482866
787	2.815341	9.432485	0.545171
788	2.815341	9.491194	0.529595
789	2.815341	9.44227	0.545171
790	2.772727	9.44227	0.576324
791	2.801136	9.432485	0.560748
792	2.84375	9.432485	0.529595
793	2.815341	9.412916	0.545171
794	2.815341	9.46184	0.560748
795	2.829545	9.471624	0.529595
796	2.829545	9.432485	0.545171
797	2.857955	9.471624	0.529595
798	2.84375	9.471624	0.560748
799	2.815341	9.46184	0.560748
800	2.786932	9.44227	0.560748
801	2.829545	9.452055	0.560748
802	2.744318	9.403131	0.607477
803	2.730114	9.44227	0.576324
804	2.772727	9.452055	0.498442
805	2.815341	9.432485	0.529595
806	2.857955	9.452055	0.576324

HigherRH_exp_2

Experiment type: Higher humidity experiment. This experiment consisted of just an empty petridish. The two humidity buffers were NaCl which have a RH of 75% at 0 degrees Celsius. Chiller was set to - 15°C. Temperature around the sample was controlled by the chiller. The pressure ranged from 10-11.3 mbar. N₂ mixed with 500 ppm H₂O gas was fed into the chamber.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= atmosphere 3= humidity buffer 4= sample

Mass Min.	Mass	RH Min.	Ch02	Ch03	Ch04	T Min.	Ch01	Ch02	Ch03	Ch04
0	242.17	0	13.26989	16.16438	9.735202	0	12.2	-1.6	-5.11	-9.79
1	242.87	1	13.52557	16.21331	6.277259	1	4.68	-1.64	-5.4	-9.33
3	242.41	2	13.72443	16.19374	9.750779	2	-5.7	-5.58	-9.13	-10.07
5	242.29	3	13.53977	16.17417	8.629283	3	-4.9	-4.57	-9.34	-9.31
7	242.3	4	13.48295	15.74364	7.165109	4	-2.12	-2.98	-8.23	-9.13
9	242.29	5	13.65341	15.15656	6.246106	5	-0.32	-2.22	-7.19	-9.07
11	242.29	6	13.39773	14.48141	5.685358	6	-0.19	-1.66	-6.36	-9.04
13	242.26	7	11.94886	13.54207	5.155763	7	0.68	-1.17	-5.89	-9.05
15	242.29	8	9.647727	12.41683	4.501558	8	1.95	-0.82	-5.55	-9.04
17	242.29	9	7.673295	11.6047	4.049844	9	2.53	-0.64	-5.33	-8.98
19	242.26	10	6.565341	11.24266	3.909657	10	2.72	-0.5	-5.19	-8.91
21	242.26	11	6.110795	10.99804	3.987539	11	2.82	-0.39	-5.1	-8.86
23	242.29	12	5.840909	10.79256	4.018692	12	2.88	-0.28	-5.02	-8.81
25	242.29	13	5.65625	10.58708	4.018692	13	2.94	-0.16	-4.96	-8.75
27	242.28	14	5.5	10.40117	3.909657	14	2.98	-0.06	-4.91	-8.71
29	242.26	15	5.386364	10.2544	3.847352	15	3.02	0.04	-4.86	-8.67
31	242.25	16	5.301136	10.11742	3.738318	16	3.11	0.13	-4.82	-8.64
33	242.28	17	5.1875	9.990215	3.598131	17	3.14	0.21	-4.78	-8.61
35	242.29	18	5.002841	9.892368	3.411215	18	3.12	0.28	-4.76	-8.58
37	242.26	19	4.860795	9.774951	3.255452	19	3.1	0.34	-4.74	-8.55
39	242.25	20	4.775568	9.657534	3.193146	20	3.1	0.41	-4.71	-8.53
41	242.28	21	4.704545	9.549902	3.115265	21	3.11	0.48	-4.69	-8.49
43	242.28	22	4.619318	9.46184	2.943925	22	3.17	0.55	-4.66	-8.47
45	242.27	23	4.576705	9.422701	2.834891	23	3.16	0.6	-4.65	-8.45
47	242.26	24	4.548295	9.412916	2.725857	24	3.19	0.66	-4.63	-8.42
49	242.26	25	4.505682	9.354207	2.679128	25	3.28	0.72	-4.61	-8.4
51	242.22	26	4.448864	9.25636	2.632399	26	3.28	0.77	-4.6	-8.37
53	242.25	27	4.392045	9.197652	2.538941	27	3.28	0.81	-4.6	-8.35
55	242.25	28	4.377841	9.187867	2.429907	28	3.28	0.87	-4.57	-8.32
57	242.22	29	4.335227	9.168297	2.352025	29	3.28	0.94	-4.53	-8.27
59	242.22	30	4.306818	9.119374	2.242991	30	3.34	1.02	-4.48	-8.22
61	242.25	31	4.264205	9.060665	2.242991	31	3.35	1.08	-4.45	-8.18
63	242.21	32	4.278409	9.060665	2.11838	32	3.42	1.15	-4.41	-8.14
65	242.25	33	4.25	9.031311	2.087227	33	3.45	1.2	-4.4	-8.11
67	242.2	34	4.235795	9.011742	2.11838	34	3.51	1.23	-4.39	-8.11
69	242.3	35	4.264205	8.982387	2.11838	35	3.5	1.25	-4.4	-8.1
71	242.24	36	4.221591	8.933464	2.11838	36	3.46	1.27	-4.41	-8.09
73	242.21	37	4.164773	8.943249	2.024922	37	3.43	1.28	-4.42	-8.09

75	242.25	38	4.207386	8.962818	1.962617	38	3.42	1.31	-4.42	-8.07
77	242.21	39	4.207386	8.953033	1.900312	39	3.44	1.34	-4.41	-8.05
79	242.24	40	4.178977	8.933464	1.869159	40	3.44	1.36	-4.41	-8.04
81	242.22	41	4.178977	8.913894	1.884735	41	3.47	1.38	-4.41	-8.04
83	242.24	42	4.164773	8.913894	1.82243	42	3.55	1.41	-4.41	-8.02
85	242.21	43	4.207386	8.864971	1.791277	43	3.59	1.43	-4.42	-8.02
87	242.24	44	4.164773	8.835616	1.744548	44	3.47	1.43	-4.44	-8.01
89	242.21	45	4.292614	8.825832	1.713396	45	3.42	1.44	-4.47	-8
91	242.24	46	4.590909	8.88454	1.806854	46	3.44	1.45	-4.49	-7.99
93	242.22	47	4.946023	9.07045	2.009346	47	3.47	1.46	-4.52	-7.98
95	242.24	48	5.230114	9.295499	2.242991	48	3.48	1.48	-4.53	-7.97
97	242.22	49	5.571023	9.520548	2.554517	49	3.54	1.5	-4.55	-7.96
99	242.25	50	5.940341	9.804305	2.88162	50	3.59	1.51	-4.57	-7.95
101	242.22	51	6.210227	10.05871	3.099688	51	3.58	1.51	-4.59	-7.95
103	242.25	52	6.536932	10.26419	3.286604	52	3.61	1.53	-4.6	-7.95
105	242.21	53	6.835227	10.51859	3.582555	53	3.61	1.53	-4.63	-7.95
107	242.25	54	7.105114	10.77299	3.816199	54	3.59	1.53	-4.64	-7.94
109	242.21	55	7.389205	10.92955	3.987539	55	3.57	1.54	-4.66	-7.94
111	242.27	56	7.573864	11.08611	4.143302	56	3.55	1.54	-4.67	-7.93
113	242.24	57	7.758523	11.24266	4.283489	57	3.63	1.57	-4.68	-7.92
115	242.22	58	7.928977	11.37965	4.439252	58	3.61	1.58	-4.68	-7.91
117	242.25	59	8.099432	11.51663	4.610592	59	3.63	1.6	-4.68	-7.91
119	242.22	60	8.326705	11.64384	4.781931	60	3.56	1.6	-4.69	-7.9
121	242.25	61	8.582386	11.75147	4.953271	61	3.57	1.62	-4.69	-7.89
123	242.22	62	8.78125	11.81996	5.109034	62	3.56	1.61	-4.7	-7.89
125	242.24	63	8.866477	11.86888	5.202492	63	3.63	1.63	-4.7	-7.88
127	242.23	64	8.852273	11.84932	5.202492	64	3.69	1.65	-4.69	-7.87
129	242.24	65	8.738636	11.79061	5.077882	65	3.68	1.66	-4.7	-7.87
131	242.22	66	8.625	11.79061	5	66	3.61	1.64	-4.71	-7.87
133	242.25	67	8.511364	11.78082	5.015576	67	3.58	1.63	-4.73	-7.87
135	242.22	68	8.426136	11.79061	4.937695	68	3.64	1.64	-4.74	-7.87
137	242.24	69	8.340909	11.74168	4.844237	69	3.65	1.65	-4.75	-7.87
139	242.22	70	8.269886	11.74168	4.82866	70	3.63	1.64	-4.77	-7.87
141	242.33	71	8.227273	11.69276	4.875389	71	3.57	1.64	-4.78	-7.86
143	242.24	72	8.241477	11.7319	4.859813	72	3.57	1.64	-4.78	-7.85
145	242.23	73	8.269886	11.72211	4.797508	73	3.61	1.66	-4.78	-7.85
147	242.24	74	8.255682	11.71233	4.781931	74	3.64	1.67	-4.78	-7.84
149	242.22	75	8.269886	11.72211	4.719626	75	3.57	1.67	-4.79	-7.84
151	242.25	76	8.284091	11.7319	4.735202	76	3.55	1.67	-4.8	-7.83
153	242.22	77	8.298295	11.70254	4.750779	77	3.63	1.68	-4.79	-7.82
155	242.25	78	8.255682	11.7319	4.766355	78	3.61	1.69	-4.8	-7.82
157	242.22	79	8.269886	11.78082	4.766355	79	3.54	1.68	-4.8	-7.81
159	242.24	80	8.326705	11.76125	4.766355	80	3.55	1.68	-4.81	-7.81
161	242.22	81	8.340909	11.79061	4.766355	81	3.62	1.7	-4.81	-7.8
163	242.25	82	8.411932	11.80039	4.70405	82	3.61	1.71	-4.82	-7.8

165	242.22	83	8.369318	11.82975	4.750779	83	3.54	1.7	-4.83	-7.79
167	242.25	84	8.355114	11.83953	4.813084	84	3.55	1.71	-4.83	-7.79
169	242.23	85	8.340909	11.84932	4.82866	85	3.62	1.73	-4.83	-7.78
171	242.22	86	8.340909	11.89824	4.844237	86	3.62	1.73	-4.83	-7.77
173	242.24	87	8.383523	11.86888	4.813084	87	3.57	1.74	-4.83	-7.76
175	242.23	88	8.355114	11.88845	4.797508	88	3.54	1.75	-4.83	-7.76
177	242.24	89	8.355114	11.8591	4.750779	89	3.64	1.77	-4.82	-7.75
179	242.23	90	8.369318	11.83953	4.750779	90	3.65	1.79	-4.81	-7.73
181	242.24	91	8.440341	11.89824	4.82866	91	3.61	1.78	-4.81	-7.73
183	242.23	92	8.511364	11.93738	4.797508	92	3.56	1.78	-4.82	-7.73
185	242.25	93	8.511364	11.89824	4.735202	93	3.64	1.8	-4.81	-7.72
187	242.22	94	8.497159	11.86888	4.735202	94	3.65	1.81	-4.81	-7.71
189	242.24	95	8.46875	11.90802	4.766355	95	3.65	1.82	-4.81	-7.71
191	242.23	96	8.46875	11.88845	4.781931	96	3.58	1.8	-4.82	-7.71
193	242.24	97	8.497159	11.92759	4.797508	97	3.61	1.82	-4.82	-7.71
195	242.25	98	8.497159	11.93738	4.82866	98	3.66	1.84	-4.82	-7.7
197	242.23	99	8.553977	11.94716	4.82866	99	3.65	1.84	-4.82	-7.69
199	242.25	100	8.596591	11.95695	4.82866	100	3.58	1.83	-4.83	-7.69
201	242.23	101	8.596591	11.94716	4.797508	101	3.62	1.84	-4.83	-7.68
203	242.24	102	8.553977	11.94716	4.844237	102	3.66	1.86	-4.82	-7.68
205	242.23	103	8.596591	11.95695	4.844237	103	3.67	1.88	-4.81	-7.66
207	242.25	104	8.625	11.99609	4.797508	104	3.6	1.88	-4.81	-7.66
209	242.23	105	8.610795	11.9863	4.82866	105	3.61	1.88	-4.81	-7.66
211	242.26	106	8.596591	11.99609	4.844237	106	3.69	1.9	-4.79	-7.65
213	242.22	107	8.596591	11.99609	4.797508	107	3.7	1.92	-4.78	-7.63
215	242.26	108	8.610795	12.02544	4.844237	108	3.66	1.92	-4.78	-7.63
217	242.25	109	8.625	12.03523	4.844237	109	3.62	1.92	-4.78	-7.63
219	242.23	110	8.667614	12.04501	4.844237	110	3.68	1.93	-4.78	-7.63
221	242.25	111	8.696023	12.04501	4.844237	111	3.71	1.94	-4.78	-7.62
223	242.23	112	8.710227	12.04501	4.922118	112	3.67	1.94	-4.79	-7.62
225	242.24	113	8.696023	12.03523	4.875389	113	3.64	1.94	-4.8	-7.61
227	242.23	114	8.696023	12.01566	4.813084	114	3.66	1.95	-4.8	-7.61
229	242.25	115	8.696023	12.07436	4.82866	115	3.71	1.96	-4.79	-7.6
231	242.23	116	8.710227	12.09393	4.813084	116	3.72	1.97	-4.78	-7.6
233	242.24	117	8.724432	12.1135	4.844237	117	3.65	1.97	-4.79	-7.59
235	242.25	118	8.667614	12.09393	4.859813	118	3.64	1.97	-4.79	-7.59
237	242.24	119	8.667614	12.1135	4.859813	119	3.71	1.98	-4.78	-7.59
239	242.25	120	8.724432	12.10372	4.813084	120	3.72	1.99	-4.77	-7.58
241	242.25	121	8.795455	12.13307	4.859813	121	3.69	1.99	-4.77	-7.57
243	242.24	122	8.809659	12.14286	4.82866	122	3.64	1.99	-4.78	-7.57
245	242.26	123	8.809659	12.15264	4.82866	123	3.68	1.99	-4.79	-7.58
247	242.25	124	8.78125	12.16243	4.82866	124	3.73	2	-4.78	-7.57
249	242.23	125	8.767045	12.20157	4.844237	125	3.7	2.01	-4.78	-7.56
251	242.25	126	8.767045	12.21135	4.82866	126	3.65	2	-4.79	-7.57
253	242.23	127	8.78125	12.17221	4.844237	127	3.66	2	-4.8	-7.56

255	242.24	128	8.767045	12.20157	4.875389	128	3.72	2.02	-4.79	-7.56
257	242.23	129	8.78125	12.182	4.875389	129	3.72	2.02	-4.79	-7.55
259	242.25	130	8.767045	12.21135	4.890966	130	3.66	2.02	-4.78	-7.55
261	242.23	131	8.767045	12.21135	4.859813	131	3.65	2.02	-4.78	-7.54
263	242.28	132	8.809659	12.22114	4.890966	132	3.73	2.04	-4.78	-7.53
265	242.21	133	8.795455	12.19178	4.875389	133	3.74	2.05	-4.78	-7.53
267	242.26	134	8.823864	12.2407	4.844237	134	3.68	2.05	-4.78	-7.52
269	242.25	135	8.823864	12.23092	4.859813	135	3.66	2.05	-4.78	-7.52
271	242.23	136	8.866477	12.23092	4.844237	136	3.74	2.06	-4.78	-7.52
273	242.25	137	8.894886	12.2407	4.859813	137	3.74	2.07	-4.78	-7.52
275	242.23	138	8.866477	12.26027	4.875389	138	3.69	2.06	-4.77	-7.51
277	242.25	139	8.852273	12.27006	4.844237	139	3.66	2.06	-4.77	-7.51
279	242.23	140	8.880682	12.2407	4.875389	140	3.74	2.08	-4.76	-7.5
281	242.24	141	8.880682	12.22114	4.906542	141	3.74	2.09	-4.75	-7.5
283	242.23	142	8.880682	12.27984	4.82866	142	3.74	2.09	-4.75	-7.5
285	242.25	143	8.880682	12.28963	4.859813	143	3.66	2.07	-4.76	-7.5
287	242.23	144	8.852273	12.3092	4.922118	144	3.7	2.09	-4.76	-7.49
289	242.26	145	8.823864	12.27006	4.875389	145	3.77	2.1	-4.75	-7.49
291	242.21	146	8.852273	12.29941	4.797508	146	3.76	2.11	-4.75	-7.48
293	242.25	147	8.894886	12.34834	4.82866	147	3.68	2.1	-4.75	-7.48
295	242.25	148	8.880682	12.35812	4.844237	148	3.69	2.11	-4.74	-7.47
297	242.23	149	8.923295	12.32877	4.797508	149	3.76	2.12	-4.74	-7.47
299	242.24	150	8.909091	12.36791	4.813084	150	3.76	2.12	-4.75	-7.48
301	242.22	151	8.909091	12.39726	4.844237	151	3.7	2.12	-4.76	-7.47
303	242.24	152	8.9375	12.37769	4.82866	152	3.68	2.12	-4.76	-7.46
305	242.22	153	8.866477	12.40705	4.781931	153	3.76	2.14	-4.74	-7.45
307	242.25	154	8.909091	12.37769	4.797508	154	3.78	2.16	-4.73	-7.44
309	242.25	155	8.965909	12.36791	4.844237	155	3.76	2.15	-4.73	-7.44
311	242.36	156	8.965909	12.35812	4.797508	156	3.7	2.15	-4.73	-7.44
313	242.24	157	8.923295	12.37769	4.797508	157	3.75	2.16	-4.72	-7.44
315	242.22	158	8.965909	12.37769	4.82866	158	3.79	2.17	-4.72	-7.44
317	242.25	159	8.980114	12.39726	4.844237	159	3.77	2.17	-4.72	-7.44
319	242.23	160	8.965909	12.44618	4.813084	160	3.71	2.16	-4.73	-7.44
321	242.25	161	8.980114	12.40705	4.813084	161	3.72	2.16	-4.73	-7.44
323	242.22	162	8.994318	12.40705	4.813084	162	3.77	2.17	-4.72	-7.44
325	242.24	163	8.951705	12.40705	4.813084	163	3.79	2.18	-4.71	-7.43
327	242.22	164	8.980114	12.4364	4.844237	164	3.72	2.17	-4.72	-7.44
329	242.24	165	8.994318	12.41683	4.82866	165	3.71	2.17	-4.71	-7.43
331	242.21	166	8.994318	12.40705	4.797508	166	3.79	2.2	-4.7	-7.42
333	242.22	167	8.980114	12.42661	4.797508	167	3.79	2.2	-4.71	-7.42
335	242.25	168	9.008523	12.4364	4.82866	168	3.74	2.19	-4.71	-7.43
337	242.23	169	9.008523	12.4364	4.813084	169	3.69	2.18	-4.72	-7.43
339	242.25	170	9.036932	12.40705	4.797508	170	3.76	2.19	-4.71	-7.42
341	242.23	171	9.051136	12.37769	4.82866	171	3.79	2.21	-4.71	-7.42
343	242.25	172	9.065341	12.4364	4.859813	172	3.8	2.22	-4.7	-7.41

345	242.22	173	9.022727	12.44618	4.82866	173	3.73	2.21	-4.71	-7.41
		174	9.008523	12.4364	4.82866	174	3.72	2.21	-4.7	-7.4
		175	9.036932	12.44618	4.813084	175	3.8	2.23	-4.7	-7.4
		176	9.065341	12.4364	4.797508	176	3.81	2.23	-4.7	-7.39
		177	9.051136	12.40705	4.859813	177	3.78	2.24	-4.69	-7.39
		178	9.051136	12.45597	4.844237	178	3.73	2.24	-4.69	-7.38
		179	9.09375	12.45597	4.890966	179	3.78	2.24	-4.69	-7.38
		180	9.051136	12.4364	4.844237	180	3.81	2.25	-4.68	-7.38
		181	9.051136	12.45597	4.859813	181	3.8	2.25	-4.69	-7.38
		182	9.051136	12.48532	4.890966	182	3.72	2.25	-4.69	-7.37
		183	9.065341	12.44618	4.859813	183	3.77	2.26	-4.68	-7.37
		184	9.079545	12.45597	4.781931	184	3.82	2.27	-4.67	-7.36
		185	9.09375	12.46575	4.766355	185	3.81	2.27	-4.67	-7.36
		186	9.065341	12.45597	4.82866	186	3.77	2.27	-4.66	-7.36
		187	9.09375	12.48532	4.813084	187	3.74	2.26	-4.66	-7.36
		188	9.122159	12.51468	4.813084	188	3.82	2.28	-4.66	-7.36
		189	9.122159	12.49511	4.844237	189	3.82	2.28	-4.66	-7.36
		190	9.122159	12.49511	4.82866	190	3.76	2.27	-4.66	-7.36
		191	9.107955	12.52446	4.859813	191	3.75	2.27	-4.66	-7.36
		192	9.122159	12.52446	4.844237	192	3.83	2.29	-4.66	-7.35
		193	9.150568	12.53425	4.82866	193	3.84	2.3	-4.66	-7.35
		194	9.09375	12.5636	4.844237	194	3.79	2.29	-4.66	-7.35
		195	9.150568	12.54403	4.813084	195	3.74	2.29	-4.65	-7.34
		196	9.122159	12.52446	4.797508	196	3.81	2.3	-4.65	-7.35
		197	9.122159	12.51468	4.797508	197	3.82	2.3	-4.65	-7.34
		198	9.09375	12.52446	4.781931	198	3.84	2.31	-4.65	-7.34
		199	9.065341	12.50489	4.766355	199	3.77	2.3	-4.66	-7.34
		200	9.09375	12.48532	4.813084	200	3.76	2.3	-4.65	-7.33
		201	9.09375	12.51468	4.859813	201	3.83	2.31	-4.65	-7.33
		202	9.136364	12.53425	4.82866	202	3.85	2.32	-4.64	-7.32
		203	9.164773	12.55382	4.82866	203	3.81	2.31	-4.64	-7.33
		204	9.164773	12.54403	4.844237	204	3.76	2.3	-4.65	-7.33
		205	9.193182	12.55382	4.82866	205	3.78	2.3	-4.65	-7.33
		206	9.178977	12.54403	4.813084	206	3.83	2.31	-4.65	-7.33
		207	9.178977	12.50489	4.844237	207	3.83	2.32	-4.65	-7.32
		208	9.178977	12.52446	4.82866	208	3.76	2.3	-4.65	-7.32
		209	9.178977	12.54403	4.797508	209	3.75	2.31	-4.64	-7.32
		210	9.164773	12.55382	4.766355	210	3.83	2.32	-4.63	-7.32
		211	9.193182	12.5636	4.813084	211	3.82	2.32	-4.63	-7.31
		212	9.207386	12.57339	4.82866	212	3.79	2.32	-4.62	-7.31
		213	9.221591	12.5636	4.797508	213	3.74	2.31	-4.63	-7.31
		214	9.178977	12.58317	4.859813	214	3.83	2.33	-4.63	-7.3
		215	9.193182	12.57339	4.82866	215	3.83	2.33	-4.63	-7.3
		216	9.207386	12.54403	4.844237	216	3.81	2.33	-4.63	-7.3
		217	9.25	12.53425	4.813084	217	3.74	2.32	-4.64	-7.31

218	9.25	12.5636	4.781931	218	3.78	2.32	-4.64	-7.31
219	9.207386	12.5636	4.797508	219	3.85	2.34	-4.63	-7.3
220	9.207386	12.57339	4.813084	220	3.84	2.35	-4.62	-7.3
221	9.193182	12.5636	4.797508	221	3.78	2.34	-4.62	-7.3
222	9.221591	12.5636	4.797508	222	3.77	2.35	-4.62	-7.29
223	9.207386	12.57339	4.781931	223	3.84	2.36	-4.61	-7.29
224	9.264205	12.58317	4.750779	224	3.85	2.37	-4.61	-7.28
225	9.25	12.54403	4.766355	225	3.84	2.38	-4.6	-7.28
226	9.221591	12.55382	4.781931	226	3.79	2.38	-4.59	-7.27
227	9.235795	12.59295	4.813084	227	3.85	2.39	-4.58	-7.27
228	9.264205	12.59295	4.813084	228	3.88	2.4	-4.58	-7.27
229	9.292614	12.54403	4.813084	229	3.86	2.4	-4.57	-7.27
230	9.278409	12.55382	4.813084	230	3.8	2.38	-4.58	-7.28
231	9.25	12.5636	4.859813	231	3.82	2.39	-4.58	-7.27
232	9.235795	12.61252	4.859813	232	3.88	2.4	-4.58	-7.26
233	9.221591	12.62231	4.82866	233	3.87	2.4	-4.58	-7.27
234	9.221591	12.58317	4.813084	234	3.82	2.39	-4.59	-7.27
235	9.25	12.58317	4.875389	235	3.79	2.39	-4.59	-7.27
236	9.235795	12.59295	4.844237	236	3.84	2.39	-4.6	-7.27
237	9.264205	12.60274	4.797508	237	3.87	2.4	-4.59	-7.26
238	9.235795	12.63209	4.781931	238	3.84	2.39	-4.59	-7.27
239	9.235795	12.62231	4.82866	239	3.78	2.39	-4.59	-7.26
240	9.25	12.61252	4.82866	240	3.82	2.39	-4.59	-7.27
241	9.278409	12.61252	4.82866	241	3.87	2.4	-4.58	-7.26
242	9.278409	12.63209	4.797508	242	3.83	2.39	-4.59	-7.27
243	9.235795	12.62231	4.813084	243	3.76	2.38	-4.6	-7.27
244	9.264205	12.61252	4.844237	244	3.82	2.39	-4.6	-7.27
245	9.306818	12.60274	4.859813	245	3.85	2.4	-4.6	-7.26
246	9.292614	12.62231	4.859813	246	3.85	2.4	-4.6	-7.26
247	9.321023	12.61252	4.813084	247	3.78	2.39	-4.59	-7.26
248	9.306818	12.62231	4.797508	248	3.79	2.39	-4.58	-7.26
249	9.306818	12.63209	4.813084	249	3.86	2.4	-4.57	-7.25
250	9.264205	12.60274	4.813084	250	3.86	2.41	-4.57	-7.25
251	9.264205	12.60274	4.875389	251	3.8	2.4	-4.59	-7.25
252	9.321023	12.62231	4.875389	252	3.79	2.4	-4.59	-7.24
253	9.392045	12.63209	4.797508	253	3.85	2.41	-4.58	-7.24
254	9.377841	12.61252	4.797508	254	3.86	2.42	-4.58	-7.24
255	9.363636	12.58317	4.82866	255	3.85	2.42	-4.57	-7.24
256	9.363636	12.61252	4.82866	256	3.79	2.41	-4.58	-7.25
257	9.377841	12.63209	4.750779	257	3.82	2.42	-4.57	-7.24
258	9.349432	12.59295	4.797508	258	3.87	2.43	-4.56	-7.24
259	9.306818	12.58317	4.82866	259	3.87	2.43	-4.56	-7.23
260	9.306818	12.60274	4.797508	260	3.8	2.42	-4.57	-7.23
261	9.321023	12.64188	4.781931	261	3.8	2.42	-4.56	-7.23
262	9.321023	12.65166	4.813084	262	3.87	2.43	-4.56	-7.23

263	9.349432	12.64188	4.813084	263	3.86	2.43	-4.56	-7.23
264	9.335227	12.61252	4.797508	264	3.87	2.44	-4.56	-7.22
265	9.335227	12.62231	4.82866	265	3.79	2.43	-4.56	-7.22
266	9.335227	12.68102	4.859813	266	3.86	2.45	-4.54	-7.21
267	9.363636	12.6908	4.82866	267	3.9	2.46	-4.53	-7.2
268	9.306818	12.67123	4.890966	268	3.88	2.46	-4.53	-7.2
269	9.335227	12.66145	4.890966	269	3.82	2.46	-4.55	-7.2
270	9.335227	12.67123	4.797508	270	3.85	2.46	-4.55	-7.2
271	9.377841	12.66145	4.797508	271	3.89	2.46	-4.55	-7.2
272	9.349432	12.66145	4.875389	272	3.91	2.47	-4.55	-7.2
273	9.349432	12.64188	4.859813	273	3.84	2.45	-4.55	-7.2
274	9.349432	12.67123	4.82866	274	3.82	2.45	-4.55	-7.2
275	9.321023	12.68102	4.797508	275	3.87	2.46	-4.54	-7.21
276	9.363636	12.67123	4.797508	276	3.9	2.46	-4.54	-7.21
277	9.292614	12.68102	4.844237	277	3.86	2.45	-4.54	-7.21
278	9.321023	12.6908	4.875389	278	3.81	2.45	-4.54	-7.21
279	9.335227	12.6908	4.875389	279	3.85	2.46	-4.53	-7.2
280	9.363636	12.70059	4.844237	280	3.9	2.48	-4.52	-7.19
281	9.434659	12.68102	4.813084	281	3.89	2.47	-4.53	-7.2
282	9.448864	12.68102	4.797508	282	3.82	2.46	-4.53	-7.2
283	9.448864	12.67123	4.813084	283	3.82	2.45	-4.53	-7.21
284	9.477273	12.62231	4.82866	284	3.89	2.46	-4.52	-7.21
285	9.434659	12.63209	4.82866	285	3.89	2.47	-4.52	-7.2
286	9.448864	12.71037	4.844237	286	3.84	2.46	-4.52	-7.21
287	9.40625	12.70059	4.844237	287	3.8	2.45	-4.53	-7.21
288	9.420455	12.68102	4.82866	288	3.86	2.46	-4.53	-7.21
289	9.377841	12.6908	4.859813	289	3.9	2.47	-4.51	-7.2
290	9.349432	12.66145	4.781931	290	3.88	2.47	-4.51	-7.2
291	9.377841	12.66145	4.797508	291	3.8	2.46	-4.52	-7.2
292	9.40625	12.65166	4.890966	292	3.85	2.46	-4.52	-7.2
293	9.434659	12.66145	4.890966	293	3.9	2.47	-4.52	-7.2
294	9.420455	12.67123	4.875389	294	3.87	2.47	-4.51	-7.2
295	9.448864	12.70059	4.890966	295	3.81	2.46	-4.52	-7.2
296	9.477273	12.72994	4.82866	296	3.82	2.47	-4.51	-7.2
297	9.463068	12.74951	4.844237	297	3.9	2.49	-4.5	-7.19
298	9.420455	12.74951	4.844237	298	3.91	2.5	-4.5	-7.18
299	9.392045	12.7593	4.781931	299	3.84	2.48	-4.51	-7.19
300	9.377841	12.74951	4.766355	300	3.83	2.48	-4.51	-7.18
301	9.448864	12.6908	4.781931	301	3.88	2.5	-4.5	-7.18
302	9.434659	12.72016	4.844237	302	3.9	2.5	-4.49	-7.17
303	9.392045	12.74951	4.875389	303	3.9	2.51	-4.48	-7.17
304	9.40625	12.73973	4.82866	304	3.84	2.5	-4.48	-7.17
305	9.392045	12.72016	4.797508	305	3.85	2.5	-4.48	-7.17
306	9.420455	12.72016	4.859813	306	3.92	2.51	-4.48	-7.17
307	9.463068	12.6908	4.859813	307	3.9	2.51	-4.49	-7.17

308	9.420455	12.72016	4.859813	308	3.88	2.5	-4.5	-7.18
309	9.420455	12.70059	4.859813	309	3.83	2.5	-4.49	-7.17
310	9.434659	12.72994	4.875389	310	3.88	2.51	-4.48	-7.17
311	9.463068	12.6908	4.875389	311	3.9	2.51	-4.48	-7.17
312	9.491477	12.68102	4.82866	312	3.91	2.51	-4.48	-7.17
313	9.477273	12.70059	4.875389	313	3.82	2.5	-4.49	-7.18
314	9.505682	12.73973	4.890966	314	3.85	2.5	-4.49	-7.18
315	9.463068	12.7593	4.813084	315	3.9	2.51	-4.48	-7.17
316	9.448864	12.72994	4.781931	316	3.91	2.51	-4.47	-7.17
317	9.448864	12.71037	4.797508	317	3.87	2.51	-4.47	-7.17
318	9.434659	12.73973	4.859813	318	3.83	2.51	-4.47	-7.17
319	9.491477	12.7593	4.844237	319	3.89	2.52	-4.46	-7.16
320	9.463068	12.72994	4.875389	320	3.9	2.52	-4.46	-7.16
321	9.477273	12.7593	4.875389	321	3.91	2.53	-4.46	-7.16
322	9.548295	12.72994	4.875389	322	3.83	2.52	-4.46	-7.16
323	9.519886	12.7593	4.875389	323	3.86	2.52	-4.46	-7.16
324	9.491477	12.7593	4.844237	324	3.9	2.52	-4.46	-7.16
325	9.534091	12.76908	4.859813	325	3.91	2.53	-4.46	-7.16
326	9.491477	12.76908	4.844237	326	3.85	2.51	-4.47	-7.17
327	9.477273	12.73973	4.844237	327	3.81	2.5	-4.48	-7.17
328	9.505682	12.74951	4.844237	328	3.89	2.51	-4.48	-7.18
329	9.519886	12.72016	4.890966	329	3.89	2.51	-4.48	-7.18
330	9.505682	12.70059	4.875389	330	3.85	2.51	-4.48	-7.17
331	9.548295	12.72016	4.906542	331	3.8	2.5	-4.48	-7.17
332	9.505682	12.71037	4.859813	332	3.88	2.52	-4.48	-7.16
333	9.505682	12.71037	4.875389	333	3.89	2.52	-4.48	-7.16
334	9.448864	12.72994	4.859813	334	3.9	2.53	-4.47	-7.16
335	9.505682	12.74951	4.813084	335	3.86	2.51	-4.48	-7.16
336	9.491477	12.74951	4.844237	336	3.81	2.51	-4.48	-7.15
337	9.519886	12.77886	4.844237	337	3.89	2.52	-4.47	-7.15
338	9.519886	12.73973	4.859813	338	3.88	2.51	-4.47	-7.16
339	9.519886	12.73973	4.890966	339	3.88	2.52	-4.47	-7.16
340	9.519886	12.7593	4.922118	340	3.82	2.51	-4.46	-7.15
341	9.519886	12.74951	4.937695	341	3.84	2.51	-4.45	-7.15
342	9.491477	12.76908	4.906542	342	3.89	2.53	-4.44	-7.14
343	9.491477	12.73973	4.82866	343	3.91	2.54	-4.45	-7.14
344	9.505682	12.7593	4.82866	344	3.85	2.53	-4.46	-7.14
345	9.491477	12.77886	4.859813	345	3.83	2.53	-4.46	-7.14

HigherRH_exp_3

Experiment type: Higher humidity experiment. This experiment consisted of just an empty petridish. The two humidity buffers were NaCl which have a RH of 75% at 0 degrees Celsius.

Chiller was set to - 15°C. Temperature around the sample was controlled by the chiller. The pressure ranged from 10-11.3 mbar. N₂ mixed with 500 ppm H₂O gas was fed into the chamber.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= atmosphere 3= humidity buffer 4= sample

Mass		RH				T				
Min.	Mass	Min.	Ch02	Ch03	Ch04	Min.	Ch01	Ch02	Ch03	Ch04
0	245.16	0	37.58807	34.79452	33.4891	0	2.74	-1.97	-6.29	-9.94
2	244.71	1	38	33.90411	31.80685	1	-2.98	-6.63	-8.86	-10.99
4	244.15	2	37.91477	32.83757	29.39252	2	-5.78	-8.13	-10.89	-11.14
6	244.24	3	37.21875	31.76125	27.81931	3	-3.19	-5.37	-9.77	-10.28
8	244.29	4	35.74148	31.29159	26.23053	4	-2.48	-3.76	-8.48	-9.98
10	244.31	5	32.77273	31.04697	24.23676	5	-2.17	-2.86	-7.68	-9.87
12	244.31	6	28.42614	31.00783	22.22741	6	-0.6	-2.29	-7.22	-9.81
14	244.37	7	24.46307	30.93933	20.88785	7	0.76	-2.02	-7.02	-9.79
16	244.35	8	22.40341	30.91977	20.66978	8	1.67	-1.78	-6.79	-9.74
18	244.29	9	21.92045	31.01761	21.41745	9	1.98	-1.63	-6.61	-9.68
20	244.35	10	21.86364	31.10568	22.02492	10	2.22	-1.53	-6.49	-9.63
22	244.38	11	21.46591	30.98826	21.97819	11	2.24	-1.45	-6.42	-9.6
24	244.32	12	20.88352	30.77299	21.57321	12	2.3	-1.36	-6.36	-9.56
26	244.37	13	20.28693	30.48924	21.07477	13	2.37	-1.27	-6.31	-9.55
28	244.34	14	19.76136	30.16634	20.56075	14	2.47	-1.17	-6.26	-9.52
30	244.36	15	19.30682	29.92172	20	15	2.51	-1.08	-6.22	-9.49
32	244.35	16	18.90909	29.68689	19.4081	16	2.53	-1	-6.18	-9.47
34	244.38	17	18.53977	29.4227	18.84735	17	2.54	-0.92	-6.15	-9.44
36	244.35	18	18.18466	29.19765	18.44237	18	2.57	-0.85	-6.12	-9.42
38	244.36	19	17.88636	28.98239	18.03738	19	2.59	-0.78	-6.1	-9.4
40	244.4	20	17.61648	28.80626	17.52336	20	2.64	-0.7	-6.07	-9.37
42	244.37	21	17.34659	28.63992	17.1028	21	2.68	-0.63	-6.05	-9.35
44	244.41	22	17.11932	28.44423	16.76012	22	2.71	-0.57	-6.03	-9.33
46	244.34	23	16.89205	28.28767	16.35514	23	2.76	-0.5	-6.02	-9.3
48	244.35	24	16.62216	28.1409	15.95016	24	2.71	-0.45	-6.01	-9.28
50	244.33	25	16.39489	28.0137	15.54517	25	2.71	-0.4	-5.99	-9.26
52	244.38	26	16.15341	27.85714	15.18692	26	2.73	-0.34	-5.97	-9.23
54	244.38	27	15.89773	27.70059	14.84424	27	2.79	-0.29	-5.96	-9.21
56	244.36	28	15.72727	27.51468	14.56386	28	2.81	-0.24	-5.95	-9.19
58	244.4	29	15.59943	27.36791	14.29907	29	2.84	-0.18	-5.93	-9.16
60	244.35	30	15.45739	27.22114	14.03427	30	2.83	-0.13	-5.92	-9.14
62	244.4	31	15.30114	27.08415	13.73832	31	2.81	-0.1	-5.92	-9.13
64	244.34	32	15.1733	26.93738	13.47352	32	2.81	-0.05	-5.9	-9.1

66	244.34	33	15.00284	26.74168	13.2243	33	2.87	-0.01	-5.89	-9.08
68	244.38	34	14.84659	26.59491	13.02181	34	2.89	0.03	-5.89	-9.07
70	244.35	35	14.67614	26.4775	12.86604	35	2.89	0.07	-5.88	-9.05
72	244.38	36	14.53409	26.36986	12.6324	36	2.86	0.1	-5.87	-9.02
74	244.35	37	14.40625	26.26223	12.35202	37	2.85	0.13	-5.86	-9.01
76	244.39	38	14.2642	26.05675	12.0405	38	2.87	0.17	-5.85	-8.99
78	244.39	39	14.13636	25.82192	11.85358	39	2.94	0.21	-5.84	-8.98
80	244.35	40	14.02273	25.68493	11.7134	40	2.94	0.24	-5.83	-8.95
82	244.4	41	13.85227	25.55773	11.55763	41	2.9	0.26	-5.83	-8.94
84	244.34	42	13.69602	25.41096	11.38629	42	2.88	0.28	-5.84	-8.94
86	244.41	43	13.58239	25.22505	11.1838	43	2.89	0.31	-5.82	-8.92
88	244.34	44	13.44034	25.02935	10.99688	44	2.96	0.35	-5.81	-8.9
90	244.39	45	13.3125	24.88258	10.82555	45	2.95	0.37	-5.81	-8.89
92	244.35	46	13.19886	24.73581	10.63863	46	2.94	0.4	-5.8	-8.87
94	244.38	47	13.02841	24.57926	10.35826	47	3	0.44	-5.78	-8.85
96	244.34	48	12.80114	24.38356	10.04673	48	3.09	0.51	-5.73	-8.8
98	244.4	49	12.55966	24.13894	9.797508	49	3.16	0.57	-5.69	-8.76
100	244.38	50	12.28977	23.91389	9.563863	50	3.14	0.62	-5.65	-8.72
102	244.33	51	12.01989	23.68885	9.267913	51	3.08	0.64	-5.64	-8.7
104	244.38	52	11.80682	23.44423	8.987539	52	3.08	0.65	-5.64	-8.7
106	244.34	53	11.62216	23.19961	8.816199	53	3.11	0.65	-5.66	-8.71
108	244.38	54	11.4517	22.97456	8.660436	54	3.09	0.65	-5.68	-8.71
110	244.34	55	11.29545	22.71037	8.489097	55	3.05	0.66	-5.69	-8.71
112	244.38	56	11.16761	22.42661	8.302181	56	2.99	0.66	-5.71	-8.71
114	244.34	57	10.99716	22.21135	8.115265	57	3.02	0.67	-5.71	-8.7
116	244.37	58	10.85511	21.96673	7.928349	58	3.05	0.68	-5.72	-8.7
118	244.3	59	10.68466	21.69276	7.725857	59	3.04	0.7	-5.72	-8.68
120	244.35	60	10.5	21.52642	7.58567	60	2.97	0.7	-5.72	-8.68
122	244.34	61	10.37216	21.39922	7.41433	61	2.96	0.71	-5.73	-8.67
124	244.32	62	10.24432	21.2818	7.258567	62	3.02	0.73	-5.73	-8.66
126	244.36	63	10.08807	21.17417	7.165109	63	3.04	0.74	-5.73	-8.65
128	244.31	64	10.01705	21.07632	7.024922	64	3	0.75	-5.73	-8.64
130	244.35	65	9.903409	20.9589	6.915888	65	2.96	0.76	-5.73	-8.63
132	244.3	66	9.761364	20.85127	6.82243	66	2.98	0.78	-5.73	-8.62
134	244.37	67	9.676136	20.78278	6.728972	67	3.05	0.8	-5.73	-8.6
136	244.35	68	9.605114	20.69472	6.635514	68	3.03	0.81	-5.74	-8.6
138	244.3	69	9.5625	20.62622	6.52648	69	3	0.81	-5.74	-8.59
140	244.34	70	9.477273	20.55773	6.433022	70	2.96	0.82	-5.74	-8.58
142	244.31	71	9.40625	20.52838	6.277259	71	3.01	0.85	-5.73	-8.56
144	244.34	72	9.377841	20.53816	6.121495	72	3.07	0.87	-5.72	-8.55
146	244.29	73	9.321023	20.47945	6.152648	73	3.05	0.89	-5.71	-8.53
148	244.35	74	9.292614	20.41096	6.105919	74	3	0.89	-5.71	-8.53
150	244.3	75	9.278409	20.40117	5.996885	75	3.01	0.9	-5.71	-8.51
152	244.33	76	9.164773	20.3816	5.903427	76	3.09	0.93	-5.7	-8.49
154	244.3	77	9.065341	20.31311	5.841121	77	3.08	0.95	-5.69	-8.48

156	244.35	78	9.065341	20.33268	5.794393	78	3.05	0.96	-5.69	-8.47
158	244.34	79	9.065341	20.23483	5.825545	79	3.04	0.97	-5.68	-8.46
160	244.31	80	9.022727	20.15656	5.794393	80	3.04	0.98	-5.69	-8.45
162	244.35	81	8.965909	20.14677	5.747664	81	3.11	1	-5.69	-8.44
164	244.31	82	8.9375	20.11742	5.732087	82	3.13	1.03	-5.67	-8.43
166	244.23	83	8.923295	20.04892	5.700935	83	3.13	1.1	-5.62	-8.37
168	244.25	84	8.923295	19.99022	5.638629	84	3.16	1.16	-5.56	-8.31
170	244.3	85	8.923295	19.95108	5.607477	85	3.26	1.22	-5.51	-8.27
172	244.27	86	8.838068	19.93151	5.545171	86	3.32	1.27	-5.48	-8.24
174	244.28	87	8.767045	19.89237	5.529595	87	3.27	1.29	-5.45	-8.22
176	244.31	88	8.724432	19.93151	5.420561	88	3.27	1.33	-5.43	-8.2
178	244.26	89	8.667614	19.90215	5.373832	89	3.31	1.34	-5.43	-8.19
180	244.31	90	8.724432	19.88258	5.436137	90	3.38	1.38	-5.41	-8.18
182	244.26	91	8.724432	19.86301	5.389408	91	3.37	1.39	-5.4	-8.17
184	244.31	92	8.681818	19.89237	5.327103	92	3.33	1.41	-5.38	-8.16
186	244.26	93	8.639205	19.83366	5.233645	93	3.32	1.42	-5.38	-8.15
188	244.31	94	8.653409	19.81409	5.218069	94	3.41	1.44	-5.36	-8.13
190	244.31	95	8.667614	19.81409	5.233645	95	3.41	1.46	-5.36	-8.12
192	244.27	96	8.667614	19.77495	5.17134	96	3.36	1.46	-5.36	-8.12
194	244.32	97	8.653409	19.78474	5.140187	97	3.34	1.45	-5.37	-8.12
196	244.27	98	8.625	19.7456	5.109034	98	3.37	1.46	-5.38	-8.12
198	244.32	99	8.625	19.71624	5.093458	99	3.42	1.48	-5.37	-8.11
200	244.27	100	8.596591	19.72603	5.124611	100	3.41	1.49	-5.37	-8.1
202	244.33	101	8.553977	19.71624	5.093458	101	3.36	1.5	-5.37	-8.09
204	244.33	102	8.525568	19.7456	5.046729	102	3.35	1.51	-5.37	-8.09
206	244.28	103	8.539773	19.73581	5.046729	103	3.43	1.52	-5.37	-8.08
208	244.33	104	8.511364	19.70646	4.984424	104	3.43	1.53	-5.38	-8.08
210	244.26	105	8.497159	19.66732	4.922118	105	3.38	1.54	-5.38	-8.08
212	244.33	106	8.454545	19.6771	4.937695	106	3.36	1.54	-5.38	-8.07
214	244.28	107	8.440341	19.66732	4.937695	107	3.41	1.55	-5.37	-8.07
216	244.33	108	8.497159	19.65753	5	108	3.43	1.57	-5.37	-8.06
218	244.28	109	8.46875	19.62818	4.968847	109	3.44	1.58	-5.36	-8.05
220	244.41	110	8.426136	19.63796	4.937695	110	3.38	1.58	-5.35	-8.05
222	244.34	111	8.454545	19.6771	4.922118	111	3.37	1.58	-5.34	-8.04
224	244.27	112	8.440341	19.65753	4.953271	112	3.46	1.61	-5.33	-8.03
226	244.35	113	8.440341	19.64775	4.906542	113	3.46	1.62	-5.32	-8.02
228	244.29	114	8.426136	19.65753	4.906542	114	3.39	1.62	-5.33	-8.01
230	244.33	115	8.497159	19.60861	4.875389	115	3.38	1.63	-5.32	-8
232	244.29	116	8.46875	19.60861	4.906542	116	3.46	1.65	-5.31	-8
234	244.33	117	8.46875	19.62818	4.922118	117	3.46	1.65	-5.32	-8
236	244.34	118	8.440341	19.6184	4.922118	118	3.4	1.65	-5.32	-7.99
238	244.29	119	8.440341	19.62818	4.890966	119	3.37	1.64	-5.33	-8
240	244.34	120	8.46875	19.63796	4.82866	120	3.43	1.66	-5.33	-7.99
242	244.3	121	8.482955	19.62818	4.813084	121	3.46	1.68	-5.32	-7.98
244	244.34	122	8.440341	19.62818	4.844237	122	3.46	1.69	-5.32	-7.98

246	244.28	123	8.46875	19.62818	4.82866	123	3.39	1.69	-5.32	-7.97
248	244.33	124	8.46875	19.60861	4.82866	124	3.4	1.7	-5.31	-7.96
250	244.3	125	8.482955	19.62818	4.859813	125	3.46	1.71	-5.31	-7.95
252	244.29	126	8.426136	19.62818	4.875389	126	3.46	1.71	-5.31	-7.95
254	244.34	127	8.482955	19.60861	4.844237	127	3.46	1.73	-5.3	-7.95
256	244.28	128	8.497159	19.55969	4.82866	128	3.42	1.74	-5.29	-7.93
258	244.33	129	8.46875	19.5499	4.82866	129	3.4	1.74	-5.29	-7.93
260	244.34	130	8.525568	19.57926	4.797508	130	3.46	1.75	-5.29	-7.93
262	244.39	131	8.553977	19.57926	4.82866	131	3.48	1.75	-5.29	-7.93
264	244.34	132	8.539773	19.56947	4.813084	132	3.44	1.75	-5.29	-7.92
266	244.29	133	8.525568	19.6184	4.875389	133	3.39	1.75	-5.28	-7.91
268	244.33	134	8.497159	19.62818	4.859813	134	3.45	1.77	-5.27	-7.91
270	244.29	135	8.46875	19.62818	4.82866	135	3.49	1.79	-5.26	-7.9
272	244.34	136	8.539773	19.6184	4.82866	136	3.48	1.79	-5.25	-7.89
274	244.34	137	8.596591	19.60861	4.844237	137	3.43	1.79	-5.25	-7.89
276	244.75	138	8.596591	19.64775	4.82866	138	3.41	1.79	-5.25	-7.88
278	244.33	139	8.568182	19.62818	4.82866	139	3.47	1.81	-5.24	-7.88
280	244.29	140	8.511364	19.62818	4.890966	140	3.49	1.82	-5.23	-7.87
282	244.34	141	8.46875	19.63796	4.844237	141	3.48	1.83	-5.22	-7.86
284	244.34	142	8.539773	19.66732	4.859813	142	3.41	1.82	-5.24	-7.87
286	244.3	143	8.553977	19.63796	4.859813	143	3.43	1.83	-5.24	-7.86
288	244.35	144	8.582386	19.6184	4.813084	144	3.49	1.83	-5.24	-7.87
290	244.29	145	8.596591	19.64775	4.82866	145	3.48	1.84	-5.24	-7.86
292	244.35	146	8.639205	19.63796	4.859813	146	3.39	1.83	-5.25	-7.86
294	244.29	147	8.625	19.62818	4.890966	147	3.43	1.84	-5.24	-7.86
296	244.35	148	8.667614	19.63796	4.859813	148	3.47	1.85	-5.24	-7.85
298	244.34	149	8.696023	19.6771	4.82866	149	3.5	1.86	-5.24	-7.85
300	244.3	150	8.667614	19.66732	4.797508	150	3.43	1.86	-5.23	-7.83
302	244.34	151	8.625	19.6771	4.797508	151	3.41	1.86	-5.23	-7.83
304	244.3	152	8.667614	19.6771	4.766355	152	3.49	1.88	-5.23	-7.82
306	244.33	153	8.667614	19.75538	4.82866	153	3.48	1.88	-5.22	-7.82
308	244.29	154	8.681818	19.7456	4.859813	154	3.45	1.88	-5.22	-7.82
310	244.29	155	8.639205	19.68689	4.82866	155	3.41	1.88	-5.22	-7.81
312	244.34	156	8.653409	19.68689	4.859813	156	3.45	1.89	-5.21	-7.81
314	244.29	157	8.653409	19.71624	4.859813	157	3.5	1.91	-5.19	-7.79
316	244.34	158	8.610795	19.71624	4.797508	158	3.48	1.91	-5.2	-7.8
318	244.29	159	8.639205	19.72603	4.813084	159	3.43	1.9	-5.2	-7.8
320	244.34	160	8.667614	19.72603	4.813084	160	3.4	1.9	-5.2	-7.79
322	244.28	161	8.681818	19.7456	4.797508	161	3.46	1.91	-5.2	-7.79
324	244.29	162	8.681818	19.76517	4.813084	162	3.49	1.92	-5.2	-7.78
326	244.35	163	8.738636	19.77495	4.875389	163	3.49	1.93	-5.19	-7.78
328	244.31	164	8.752841	19.71624	4.906542	164	3.42	1.92	-5.19	-7.78
330	244.36	165	8.724432	19.73581	4.890966	165	3.42	1.92	-5.19	-7.78
332	244.31	166	8.710227	19.70646	4.875389	166	3.49	1.94	-5.18	-7.77
334	244.4	167	8.710227	19.7456	4.844237	167	3.48	1.94	-5.18	-7.77

336	244.34	168	8.724432	19.77495	4.844237	168	3.43	1.94	-5.18	-7.77
338	244.29	169	8.752841	19.81409	4.859813	169	3.39	1.93	-5.19	-7.77
340	244.34	170	8.767045	19.80431	4.859813	170	3.47	1.95	-5.17	-7.76
342	244.3	171	8.752841	19.73581	4.875389	171	3.48	1.96	-5.17	-7.75
344	244.35	172	8.767045	19.73581	4.797508	172	3.47	1.97	-5.16	-7.74
346	244.36	173	8.78125	19.75538	4.797508	173	3.42	1.96	-5.17	-7.74
348	244.33	174	8.852273	19.76517	4.813084	174	3.43	1.97	-5.16	-7.73
350	244.37	175	8.823864	19.81409	4.82866	175	3.49	1.99	-5.15	-7.72
352	244.32	176	8.767045	19.81409	4.844237	176	3.5	1.99	-5.15	-7.72
354	244.34	177	8.738636	19.75538	4.906542	177	3.45	1.99	-5.15	-7.72
356	244.31	178	8.767045	19.77495	4.875389	178	3.41	1.99	-5.15	-7.72
358	244.29	179	8.767045	19.78474	4.875389	179	3.48	2	-5.14	-7.71
360	244.35	180	8.78125	19.79452	4.859813	180	3.5	2.01	-5.13	-7.7
362	244.33	181	8.78125	19.83366	4.844237	181	3.5	2.02	-5.13	-7.7
364	244.35	182	8.795455	19.84344	4.797508	182	3.44	2.01	-5.13	-7.7
366	244.33	183	8.823864	19.79452	4.797508	183	3.43	2.02	-5.12	-7.69
368	244.36	184	8.823864	19.78474	4.813084	184	3.5	2.03	-5.12	-7.68
370	244.37	185	8.852273	19.78474	4.875389	185	3.49	2.03	-5.12	-7.69
372	244.35	186	8.838068	19.76517	4.922118	186	3.48	2.03	-5.12	-7.68
374	244.38	187	8.78125	19.79452	4.875389	187	3.42	2.03	-5.12	-7.68
376	244.33	188	8.767045	19.76517	4.859813	188	3.46	2.03	-5.13	-7.69
378	244.38	189	8.78125	19.77495	4.82866	189	3.47	2.03	-5.12	-7.68
380	244.33	190	8.823864	19.80431	4.859813	190	3.5	2.04	-5.12	-7.68
382	244.36	191	8.823864	19.82387	4.859813	191	3.44	2.03	-5.12	-7.69
384	244.33	192	8.823864	19.84344	4.844237	192	3.41	2.03	-5.12	-7.68
386	244.32	193	8.852273	19.81409	4.844237	193	3.45	2.04	-5.11	-7.68
388	244.28	194	8.866477	19.77495	4.906542	194	3.5	2.06	-5.1	-7.67
390	244.32	195	8.923295	19.78474	4.922118	195	3.49	2.06	-5.09	-7.66
		196	8.9375	19.82387	4.906542	196	3.42	2.06	-5.09	-7.65
		197	8.894886	19.81409	4.875389	197	3.46	2.07	-5.09	-7.65
		198	8.894886	19.82387	4.844237	198	3.49	2.08	-5.08	-7.64
		199	8.852273	19.83366	4.906542	199	3.51	2.08	-5.08	-7.64
		200	8.838068	19.83366	4.890966	200	3.44	2.08	-5.08	-7.64
		201	8.866477	19.82387	4.859813	201	3.43	2.08	-5.08	-7.64
		202	8.852273	19.85323	4.890966	202	3.49	2.09	-5.06	-7.63
		203	8.909091	19.85323	4.859813	203	3.5	2.09	-5.07	-7.63
		204	8.909091	19.90215	4.82866	204	3.5	2.1	-5.06	-7.62
		205	8.923295	19.92172	4.844237	205	3.44	2.09	-5.07	-7.63
		206	8.980114	19.8728	4.890966	206	3.42	2.09	-5.07	-7.63
		207	8.965909	19.89237	4.922118	207	3.5	2.11	-5.06	-7.62
		208	8.951705	19.90215	4.906542	208	3.5	2.11	-5.06	-7.61
		209	8.951705	19.8728	4.922118	209	3.47	2.1	-5.06	-7.62
		210	8.951705	19.86301	4.906542	210	3.41	2.09	-5.07	-7.62
		211	8.923295	19.89237	4.859813	211	3.43	2.1	-5.07	-7.61
		212	8.9375	19.90215	4.844237	212	3.5	2.11	-5.06	-7.61

213	8.951705	19.89237	4.844237	213	3.49	2.12	-5.06	-7.6
214	8.965909	19.91194	4.82866	214	3.46	2.11	-5.06	-7.6
215	9.022727	19.8728	4.859813	215	3.4	2.11	-5.05	-7.59
216	8.994318	19.86301	4.844237	216	3.47	2.12	-5.05	-7.6
217	8.994318	19.85323	4.859813	217	3.49	2.12	-5.04	-7.59
218	9.051136	19.85323	4.937695	218	3.47	2.13	-5.03	-7.58
219	9.065341	19.86301	4.968847	219	3.42	2.13	-5.03	-7.58
220	9.065341	19.92172	4.922118	220	3.44	2.13	-5.02	-7.57
221	9.051136	19.8728	4.906542	221	3.5	2.14	-5.02	-7.57
222	9.065341	19.92172	4.922118	222	3.48	2.15	-5.01	-7.57
223	9.051136	19.92172	4.875389	223	3.48	2.15	-5.01	-7.56
224	9.079545	19.94129	4.859813	224	3.42	2.15	-5	-7.56
225	9.065341	19.92172	4.859813	225	3.46	2.16	-5	-7.56
226	9.09375	19.91194	4.890966	226	3.5	2.17	-5	-7.55
227	9.09375	19.92172	4.906542	227	3.5	2.17	-4.99	-7.54
228	9.09375	19.91194	4.890966	228	3.44	2.16	-4.99	-7.54
229	9.065341	19.92172	4.875389	229	3.42	2.16	-4.99	-7.54
230	9.079545	19.97065	4.906542	230	3.49	2.17	-4.99	-7.55
231	9.107955	19.96086	4.937695	231	3.49	2.16	-4.99	-7.55
232	9.079545	19.98043	4.890966	232	3.48	2.16	-4.99	-7.54
233	9.09375	20.00978	4.906542	233	3.42	2.16	-5	-7.54
234	9.122159	19.98043	4.922118	234	3.41	2.15	-5	-7.54
235	9.150568	19.97065	4.922118	235	3.47	2.16	-5	-7.55
236	9.136364	19.98043	4.906542	236	3.47	2.16	-5	-7.55
237	9.150568	20.00978	4.875389	237	3.46	2.16	-5	-7.54
238	9.178977	20	4.906542	238	3.37	2.14	-5.02	-7.55
239	9.178977	20.02935	4.968847	239	3.42	2.13	-5.02	-7.56
240	9.207386	20.01957	4.922118	240	3.43	2.12	-5.03	-7.56
241	9.178977	20.00978	4.922118	241	3.4	2.1	-5.06	-7.58
242	9.178977	19.95108	4.937695	242	3.33	2.07	-5.08	-7.59
243	9.178977	20.00978	4.922118	243	3.27	2.04	-5.1	-7.61
244	9.178977	20.00978	4.984424	244	3.33	2.04	-5.11	-7.62
245	9.178977	20.00978	4.953271	245	3.33	2.03	-5.11	-7.61
246	9.178977	20.00978	4.922118	246	3.29	2.03	-5.12	-7.61
247	9.164773	20.02935	4.953271	247	3.23	2.01	-5.12	-7.61
248	9.136364	19.98043	4.937695	248	3.25	2.01	-5.11	-7.61
249	9.178977	20.03914	4.968847	249	3.3	2.02	-5.11	-7.61
250	9.264205	20.05871	4.875389	250	3.28	2.01	-5.11	-7.6
251	9.221591	20.04892	4.890966	251	3.22	2	-5.11	-7.6
252	9.193182	20.05871	4.906542	252	3.22	2	-5.12	-7.6
253	9.235795	20.07828	4.984424	253	3.26	2.01	-5.11	-7.59
254	9.264205	20.06849	4.968847	254	3.27	2.01	-5.11	-7.59
255	9.321023	20.09785	4.984424	255	3.27	2.01	-5.11	-7.59
256	9.321023	20.11742	4.968847	256	3.22	2.01	-5.1	-7.58
257	9.335227	20.08806	4.984424	257	3.19	2	-5.11	-7.58

258	9.264205	20.06849	4.984424	258	3.26	2.02	-5.1	-7.57
259	9.278409	20.10763	4.953271	259	3.27	2.02	-5.1	-7.57
260	9.264205	20.10763	4.906542	260	3.27	2.02	-5.09	-7.56
261	9.292614	20.09785	4.937695	261	3.22	2.01	-5.1	-7.56
262	9.321023	20.09785	4.937695	262	3.19	2.02	-5.09	-7.56
263	9.321023	20.13699	5	263	3.28	2.03	-5.09	-7.55
264	9.292614	20.14677	5.015576	264	3.28	2.03	-5.09	-7.55
265	9.235795	20.11742	5	265	3.26	2.03	-5.09	-7.55
266	9.292614	20.07828	5	266	3.21	2.03	-5.08	-7.54
267	9.321023	20.11742	5	267	3.22	2.03	-5.09	-7.54
268	9.278409	20.14677	4.953271	268	3.28	2.04	-5.08	-7.53
269	9.292614	20.18591	4.953271	269	3.3	2.05	-5.08	-7.53
270	9.363636	20.16634	4.953271	270	3.26	2.05	-5.08	-7.53
271	9.377841	20.13699	5.031153	271	3.21	2.04	-5.08	-7.53
272	9.349432	20.14677	4.968847	272	3.25	2.05	-5.08	-7.52
273	9.321023	20.14677	4.937695	273	3.29	2.06	-5.07	-7.52
274	9.349432	20.16634	4.953271	274	3.29	2.06	-5.08	-7.52
275	9.363636	20.19569	4.984424	275	3.28	2.06	-5.07	-7.52
276	9.363636	20.18591	4.984424	276	3.23	2.06	-5.07	-7.51
277	9.392045	20.18591	4.984424	277	3.24	2.06	-5.06	-7.5
278	9.335227	20.17613	5.015576	278	3.3	2.06	-5.06	-7.5
279	9.321023	20.21526	5.015576	279	3.3	2.07	-5.05	-7.5
280	9.321023	20.20548	4.984424	280	3.26	2.06	-5.05	-7.5
281	9.335227	20.14677	5	281	3.23	2.06	-5.04	-7.5
282	9.349432	20.15656	5.015576	282	3.27	2.07	-5.04	-7.49
283	9.392045	20.15656	5	283	3.29	2.07	-5.04	-7.49
284	9.392045	20.14677	5.015576	284	3.32	2.09	-5.03	-7.48
285	9.420455	20.15656	5.031153	285	3.27	2.08	-5.03	-7.48
286	9.448864	20.24462	5.031153	286	3.23	2.08	-5.03	-7.48
287	9.434659	20.24462	5	287	3.31	2.09	-5.02	-7.48
288	9.491477	20.22505	5	288	3.33	2.1	-5.02	-7.47
289	9.40625	20.23483	4.953271	289	3.29	2.1	-5.02	-7.47
290	9.392045	20.24462	4.922118	290	3.25	2.09	-5.02	-7.47
291	9.420455	20.19569	5.031153	291	3.29	2.1	-5.02	-7.47
292	9.448864	20.21526	5.031153	292	3.31	2.1	-5.02	-7.47
293	9.420455	20.22505	5.046729	293	3.35	2.12	-5	-7.45
294	9.377841	20.22505	5.046729	294	3.28	2.11	-5	-7.45
295	9.420455	20.20548	4.984424	295	3.27	2.12	-5	-7.45
296	9.434659	20.19569	4.968847	296	3.32	2.12	-4.99	-7.44
297	9.40625	20.21526	4.953271	297	3.36	2.13	-4.98	-7.44
298	9.420455	20.2544	4.922118	298	3.35	2.13	-4.99	-7.44
299	9.392045	20.21526	5	299	3.3	2.13	-4.98	-7.43
300	9.434659	20.21526	4.968847	300	3.29	2.13	-4.99	-7.43
301	9.448864	20.2544	5.046729	301	3.33	2.14	-4.98	-7.43
302	9.477273	20.23483	5.077882	302	3.36	2.14	-4.98	-7.43

303	9.463068	20.24462	5.046729	303	3.35	2.15	-4.97	-7.43
304	9.434659	20.24462	5	304	3.3	2.14	-4.97	-7.43
305	9.463068	20.2544	4.984424	305	3.29	2.14	-4.98	-7.43
306	9.463068	20.28376	5.015576	306	3.36	2.15	-4.96	-7.42
307	9.463068	20.26419	5.031153	307	3.35	2.15	-4.96	-7.42
308	9.463068	20.29354	5.015576	308	3.38	2.16	-4.94	-7.41
309	9.463068	20.29354	5	309	3.31	2.16	-4.94	-7.41
310	9.477273	20.27397	5.015576	310	3.3	2.15	-4.94	-7.41
311	9.448864	20.30333	5.077882	311	3.36	2.16	-4.94	-7.41
312	9.505682	20.30333	5.062305	312	3.37	2.17	-4.94	-7.41
313	9.491477	20.29354	5.031153	313	3.36	2.17	-4.94	-7.41
314	9.420455	20.3229	4.984424	314	3.32	2.16	-4.94	-7.41
315	9.491477	20.30333	5.015576	315	3.31	2.17	-4.93	-7.4
316	9.463068	20.27397	5.031153	316	3.4	2.19	-4.92	-7.39
317	9.491477	20.28376	5.046729	317	3.39	2.19	-4.92	-7.39
318	9.519886	20.29354	5.031153	318	3.35	2.18	-4.92	-7.4
319	9.491477	20.29354	5.046729	319	3.33	2.18	-4.92	-7.39
320	9.519886	20.29354	5.046729	320	3.35	2.19	-4.91	-7.38
321	9.519886	20.3229	5.046729	321	3.39	2.2	-4.91	-7.38
322	9.491477	20.3229	5.077882	322	3.41	2.2	-4.91	-7.38
323	9.463068	20.3229	5.015576	323	3.33	2.19	-4.92	-7.39
324	9.463068	20.29354	5.015576	324	3.32	2.19	-4.92	-7.38
325	9.448864	20.30333	4.984424	325	3.37	2.19	-4.92	-7.38
326	9.477273	20.33268	5.031153	326	3.41	2.2	-4.92	-7.38
327	9.463068	20.28376	5.062305	327	3.39	2.2	-4.93	-7.38
328	9.505682	20.31311	5.062305	328	3.34	2.2	-4.92	-7.37
329	9.519886	20.31311	5.062305	329	3.32	2.19	-4.92	-7.38
330	9.534091	20.30333	5	330	3.38	2.2	-4.92	-7.38
331	9.491477	20.3229	5.031153	331	3.41	2.21	-4.91	-7.37
332	9.491477	20.3229	5.077882	332	3.39	2.21	-4.91	-7.37
333	9.548295	20.34247	5.046729	333	3.34	2.21	-4.91	-7.37
334	9.548295	20.3229	5.031153	334	3.35	2.2	-4.91	-7.37
335	9.505682	20.34247	5.077882	335	3.4	2.22	-4.9	-7.37
336	9.491477	20.3229	5.109034	336	3.42	2.22	-4.9	-7.37
337	9.519886	20.31311	5.077882	337	3.37	2.22	-4.9	-7.37
338	9.519886	20.30333	5.093458	338	3.33	2.21	-4.9	-7.37
339	9.491477	20.26419	5.093458	339	3.39	2.23	-4.88	-7.36
340	9.519886	20.30333	5.109034	340	3.42	2.23	-4.88	-7.37
341	9.534091	20.33268	5.046729	341	3.43	2.24	-4.87	-7.36
342	9.534091	20.33268	5.031153	342	3.37	2.23	-4.88	-7.37
343	9.491477	20.34247	5.031153	343	3.35	2.23	-4.87	-7.36
344	9.477273	20.36204	5.077882	344	3.4	2.23	-4.87	-7.37
345	9.505682	20.3816	5.109034	345	3.44	2.24	-4.87	-7.36
346	9.505682	20.3816	5.140187	346	3.42	2.24	-4.87	-7.36
347	9.491477	20.34247	5.077882	347	3.37	2.23	-4.88	-7.36

348	9.534091	20.31311	5.077882	348	3.35	2.24	-4.87	-7.35
349	9.619318	20.34247	5.062305	349	3.43	2.24	-4.87	-7.36
350	9.5625	20.33268	5	350	3.43	2.25	-4.86	-7.35
351	9.590909	20.35225	5.015576	351	3.42	2.25	-4.86	-7.35
352	9.590909	20.36204	5.062305	352	3.36	2.24	-4.87	-7.35
353	9.605114	20.34247	5.062305	353	3.38	2.24	-4.87	-7.35
354	9.590909	20.34247	5.062305	354	3.44	2.26	-4.87	-7.35
355	9.619318	20.36204	5.031153	355	3.44	2.27	-4.85	-7.34
356	9.619318	20.34247	5.046729	356	3.43	2.27	-4.85	-7.33
357	9.5625	20.33268	5.062305	357	3.37	2.26	-4.86	-7.34
358	9.576705	20.35225	5.124611	358	3.4	2.26	-4.86	-7.34
359	9.590909	20.37182	5.109034	359	3.44	2.27	-4.86	-7.34
360	9.590909	20.39139	5.093458	360	3.44	2.27	-4.86	-7.34
361	9.576705	20.41096	5.093458	361	3.44	2.28	-4.85	-7.33
362	9.576705	20.36204	5.046729	362	3.37	2.26	-4.85	-7.33
363	9.605114	20.3816	5.046729	363	3.41	2.28	-4.84	-7.32
364	9.576705	20.43053	5.093458	364	3.46	2.28	-4.84	-7.32
365	9.590909	20.42074	5.124611	365	3.46	2.29	-4.84	-7.32
366	9.548295	20.43053	5.124611	366	3.41	2.28	-4.84	-7.32
367	9.590909	20.41096	5.093458	367	3.37	2.27	-4.84	-7.32
368	9.605114	20.42074	5.077882	368	3.43	2.28	-4.84	-7.32
369	9.605114	20.39139	5.077882	369	3.46	2.29	-4.84	-7.32
370	9.633523	20.35225	5.062305	370	3.46	2.29	-4.84	-7.32
371	9.633523	20.34247	5.077882	371	3.41	2.28	-4.84	-7.31
372	9.605114	20.3816	5.062305	372	3.37	2.28	-4.84	-7.31
373	9.590909	20.36204	5.062305	373	3.46	2.29	-4.84	-7.31
374	9.590909	20.39139	5.093458	374	3.47	2.3	-4.83	-7.31
375	9.590909	20.39139	5.155763	375	3.45	2.29	-4.83	-7.31
376	9.548295	20.42074	5.109034	376	3.4	2.29	-4.83	-7.31
377	9.5625	20.40117	5.077882	377	3.41	2.29	-4.83	-7.31
378	9.590909	20.40117	5.109034	378	3.47	2.3	-4.82	-7.31
379	9.619318	20.42074	5.109034	379	3.48	2.31	-4.81	-7.31
380	9.690341	20.43053	5.077882	380	3.46	2.31	-4.8	-7.31
381	9.690341	20.44031	5.077882	381	3.41	2.31	-4.8	-7.3
382	9.661932	20.42074	5.093458	382	3.42	2.3	-4.8	-7.31
383	9.633523	20.44031	5.046729	383	3.5	2.33	-4.79	-7.3
384	9.590909	20.45988	5.077882	384	3.49	2.32	-4.8	-7.3
385	9.676136	20.44031	5.109034	385	3.45	2.31	-4.81	-7.3
386	9.690341	20.39139	5.109034	386	3.41	2.31	-4.8	-7.3
387	9.661932	20.37182	5.077882	387	3.46	2.33	-4.8	-7.29
388	9.647727	20.42074	5.109034	388	3.51	2.34	-4.79	-7.29
389	9.605114	20.42074	5.109034	389	3.52	2.36	-4.77	-7.28

HigherRH_exp_4

Experiment type: Higher humidity experiment. This experiment consisted of just an empty petridish. There was not a humidity buffer inside the chamber. The sample was raised 13.3 cm off the chamber floor. Chiller was set to - 15°C. Temperature around the sample was controlled by the chiller. The pressure ranged from 10-11.3 mbar. N₂ mixed with 500 ppm H₂O gas was fed into the chamber.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= atmosphere 3= humidity buffer 4= sample

Mass		RH				T				
Min.	Mass	Min.	Ch02	Ch03	Ch04	Min.	Ch01	Ch02	Ch03	Ch04
0	259.22	0	14.44865	34.61714	12.35088	0	23.56	15.47	-4.4	-12.65
2	259.91	1	14.73243	34.43143	9.953216	1	20.61	12.09	-4.15	-12.98
4	259.74	2	15.70541	34.77429	12.4386	2	17.22	8.33	-5.4	-13.4
6	259.67	3	17.0027	35.86	10.99123	3	15.79	8.43	-5.32	-13.5
8	259.85	4	16.42162	36.47429	9.251462	4	14.98	9.21	-4.83	-13.51
10	259.32	5	14.66486	36.68857	7.862573	5	14.36	9.29	-4.65	-13.5
12	259.3	6	12.70541	37.23143	6.619883	6	14.51	9.33	-4.67	-13.46
14	258.99	7	10.62432	37.77429	5.172515	7	14.45	9.21	-4.66	-13.33
16	259.04	8	8.664865	38.06	3.871345	8	14.79	10.23	-3.85	-11.06
18	259.18	9	7.3	37.54571	3.21345	9	14.98	10.57	-2.86	-10.48
20	259.03	10	6.502703	35.88857	3.008772	10	15.47	10.49	-1.86	-11.21
22	258.9	11	6.151351	34.03143	3.184211	11	15.09	13.01	-0.95	-10.8
24	258.78	12	6.164865	32.83143	3.564327	12	16.04	21.64	-2.59	-10.68
26	258.72	13	6.151351	32.13143	3.827485	13	15.47	24.83	-3.16	-10.77
28	258.72	14	6.056757	31.66	3.871345	14	16.22	25.66	-3.47	-11.75
30	258.69	15	5.962162	31.30286	3.900585	15	17.21	25.34	-3.72	-12.32
32	258.64	16	5.894595	31.08857	3.885965	16	16.38	25.34	-3.87	-12.37
34	258.64	17	5.854054	30.80286	3.973684	17	17.13	25.46	-3.95	-12.33
36	258.63	18	5.759459	30.53143	3.973684	18	16.1	24.84	-4.09	-12.41
38	258.6	19	5.664865	30.28857	3.973684	19	15.95	26.06	-4.27	-12.45
40	258.6	20	5.610811	30.38857	4.017544	20	6.96	22.89	-4.5	-11.69
42	258.61	21	5.57027	30.07429	4.046784	21	1.26	18.64	-3.59	-10.06
44	258.64	22	5.867568	29.88857	3.725146	22	-1.08	15.87	-5.19	-12.59
46	258.56	23	6.259459	30.17429	2.862573	23	0.05	14.9	-5.35	-12.89
48	258.55	24	6.313514	30.54571	2.073099	24	0.81	14.35	-5.36	-12.97
50	258.55	25	6.178378	30.71714	1.634503	25	0.92	14.19	-5.33	-13.01
52	258.52	26	6.02973	30.61714	1.429825	26	2.34	14.12	-5.15	-13
54	258.53	27	5.935135	30.17429	1.415205	27	4.04	14.01	-4.99	-13

56	258.56	28	5.881081	29.61714	1.517544	28	5.08	13.97	-4.87	-12.98
58	258.47	29	5.935135	29.10286	1.634503	29	5.58	13.96	-4.77	-12.96
60	258.49	30	6.043243	28.66	1.780702	30	5.62	13.98	-4.67	-12.94
62	258.52	31	6.191892	28.40286	1.926901	31	5.6	14	-4.58	-12.93
64	258.51	32	6.354054	28.21714	2.01462	32	5.58	14.01	-4.49	-12.89
66	258.46	33	6.435135	28.00286	2.102339	33	5.56	14.02	-4.41	-12.86
68	258.49	34	6.502703	27.83143	2.175439	34	5.53	14.02	-4.35	-12.85
70	258.49	35	6.543243	27.70286	2.248538	35	5.51	14.02	-4.3	-12.83
72	258.44	36	6.516216	27.63143	2.292398	36	5.47	14	-4.25	-12.84
74	258.47	37	6.502703	27.56	2.321637	37	5.45	14	-4.21	-12.83
76	258.41	38	6.502703	27.44571	2.321637	38	5.43	13.99	-4.17	-12.83
78	258.42	39	6.516216	27.36	2.409357	39	5.43	14	-4.11	-12.82
80	258.43	40	6.462162	27.21714	2.409357	40	4.3	13.99	-4.06	-12.82
82	258.4	41	6.448649	26.98857	2.336257	41	3.66	13.97	-4	-12.84
84	258.41	42	6.435135	26.70286	2.380117	42	3.54	13.97	-3.96	-12.88
86	258.42	43	6.340541	26.46	2.321637	43	3.52	13.96	-3.93	-12.9
88	258.37	44	6.272973	26.30286	2.321637	44	3.54	13.96	-3.9	-12.91
90	258.39	45	6.191892	26.21714	2.321637	45	3.55	13.96	-3.88	-12.92
92	258.36	46	6.124324	26.08857	2.336257	46	3.56	13.96	-3.85	-12.92
94	258.41	47	6.056757	25.90286	2.292398	47	3.57	13.97	-3.83	-12.9
96	258.34	48	6.056757	25.77429	2.190058	48	3.56	13.97	-3.8	-12.9
98	258.38	49	5.948649	25.61714	2.131579	49	3.56	13.97	-3.78	-12.9
100	258.36	50	5.827027	25.46	2.102339	50	3.54	13.97	-3.75	-12.89
102	258.34	51	5.772973	25.41714	2.05848	51	3.52	13.97	-3.73	-12.89
104	258.38	52	5.759459	25.28857	2.01462	52	3.52	13.97	-3.72	-12.89
106	258.33	53	5.705405	25.13143	1.926901	53	3.51	13.96	-3.7	-12.88
108	258.34	54	5.624324	25.04571	1.912281	54	3.51	13.96	-3.67	-12.88
110	258.31	55	5.52973	24.94571	1.853801	55	3.52	13.95	-3.66	-12.88
112	258.31	56	5.421622	24.83143	1.736842	56	3.53	13.95	-3.64	-12.87
114	258.35	57	5.354054	24.64571	1.619883	57	3.53	13.95	-3.62	-12.87
116	258.3	58	5.245946	24.41714	1.546784	58	3.52	13.95	-3.6	-12.86
118	258.36	59	5.124324	24.21714	1.459064	59	3.51	13.94	-3.59	-12.85
120	258.29	60	4.975676	24.03143	1.356725	60	3.52	13.94	-3.57	-12.86
122	258.34	61	4.759459	23.78857	1.195906	61	3.53	13.93	-3.55	-12.84
124	258.28	62	4.597297	23.40286	1.005848	62	3.54	13.93	-3.54	-12.84
126	258.31	63	4.448649	22.94571	0.874269	63	3.55	13.93	-3.52	-12.84
128	258.28	64	4.286486	22.48857	0.74269	64	3.56	13.92	-3.51	-12.83
130	258.31	65	4.164865	21.96	0.552632	65	3.54	13.92	-3.49	-12.81
132	258.27	66	4.016216	21.38857	0.362573	66	3.54	13.91	-3.48	-12.82
134	258.3	67	3.827027	20.81714	0.187135	67	3.54	13.91	-3.47	-12.8
136	258.26	68	3.651351	20.26	0.017544	68	3.55	13.91	-3.45	-12.77
138	258.3	69	3.475676	19.73143	0.236842	69	3.55	13.9	-3.44	-12.77
140	258.24	70	3.286486	19.24571	0.397661	70	3.56	13.91	-3.42	-12.74
142	258.27	71	3.137838	18.80286	0.573099	71	3.55	13.9	-3.41	-12.72
144	258.27	72	3.056757	18.36	0.719298	72	3.54	13.9	-3.39	-12.71

146	258.24	73	2.921622	17.87429	0.865497	73	3.54	13.9	-3.38	-12.68
148	258.27	74	2.732432	17.43143	1.070175	74	3.55	13.9	-3.35	-12.64
150	258.24	75	2.57027	16.94571	1.216374	75	3.56	13.89	-3.34	-12.64
152	258.27	76	2.408108	16.43143	1.377193	76	3.56	13.89	-3.33	-12.59
154	258.23	77	2.245946	15.88857	1.581871	77	3.55	13.89	-3.31	-12.54
156	258.26	78	2.083784	15.28857	1.815789	78	3.54	13.89	-3.3	-12.49
158	258.23	79	1.894595	14.73143	2.020468	79	3.53	13.89	-3.28	-12.44
160	258.27	80	1.678378	14.46	2.225146	80	3.53	13.89	-3.26	-12.4
162	258.22	81	1.448649	14.03143	2.429825	81	3.53	13.89	-3.25	-12.4
164	258.25	82	1.286486	13.08857	2.576023	82	3.52	13.88	-3.24	-12.39
166	258.21	83	1.137838	12.57429	2.722222	83	3.52	13.88	-3.23	-12.37
168	258.25	84	0.962162	12.04571	2.853801	84	3.5	13.87	-3.22	-12.37
170	258.2	85	0.840541	11.58857	3	85	3.49	13.87	-3.2	-12.37
172	258.25	86	0.691892	11.24571	3.160819	86	3.48	13.87	-3.18	-12.35
174	258.2	87	0.543243	10.94571	3.263158	87	3.5	13.87	-3.16	-12.34
176	258.22	88	0.448649	10.63143	3.307018	88	3.5	13.86	-3.15	-12.34
178	258.19	89	0.340541	10.26	3.380117	89	3.5	13.86	-3.13	-12.33
180	258.25	90	0.191892	9.931429	3.467836	90	3.48	13.85	-3.12	-12.33
182	258.19	91	0.083784	9.674286	3.599415	91	3.46	13.86	-3.1	-12.33
184	258.22	92	0.010811	9.431429	3.657895	92	3.46	13.86	-3.09	-12.31
186	258.18	93	0.078378	9.188571	3.745614	93	3.47	13.86	-3.06	-12.3
188	258.21	94	0.145946	8.745714	3.847953	94	3.47	13.86	-3.04	-12.29
190	258.17	95	0.240541	8.517143	3.950292	95	3.45	13.86	-3.03	-12.28
192	258.23	96	0.348649	8.445714	4.052632	96	3.42	13.86	-3.01	-12.28
194	258.17	97	0.42973	8.231429	4.140351	97	3.41	13.85	-3.01	-12.29
196	258.24	98	0.47027	8.002857	4.154971	98	3.42	13.85	-2.99	-12.28
198	258.16	99	0.551351	7.788571	4.21345	99	3.43	13.84	-2.97	-12.28
200	258.22	100	0.632432	7.574286	4.28655	100	3.42	13.83	-2.97	-12.29
202	258.15	101	0.7	7.402857	4.359649	101	3.41	13.84	-2.95	-12.27
204	258.22	102	0.767568	7.174286	4.418129	102	3.41	13.84	-2.93	-12.27
206	258.2	103	0.794595	6.96	4.491228	103	3.43	13.84	-2.92	-12.27
208	258.19	104	0.794595	6.774286	4.535088	104	3.43	13.84	-2.9	-12.25
210	258.17	105	0.875676	6.617143	4.535088	105	3.44	13.84	-2.89	-12.25
212	258.16	106	0.997297	6.445714	4.593567	106	3.43	13.84	-2.88	-12.26
214	258.19	107	1.091892	6.345714	4.637427	107	3.42	13.83	-2.87	-12.25
216	258.15	108	1.091892	6.202857	4.725146	108	3.43	13.84	-2.86	-12.25
218	258.2	109	1.159459	6.06	4.798246	109	3.46	13.84	-2.84	-12.24
220	258.15	110	1.227027	5.902857	4.827485	110	3.45	13.83	-2.83	-12.23
222	258.19	111	1.267568	5.745714	4.871345	111	3.43	13.83	-2.82	-12.24
224	258.14	112	1.308108	5.588571	4.900585	112	3.43	13.82	-2.82	-12.24
226	258.15	113	1.348649	5.46	4.929825	113	3.45	13.82	-2.8	-12.23
228	258.14	114	1.389189	5.402857	4.959064	114	3.46	13.83	-2.79	-12.23
230	258.17	115	1.42973	5.26	5.017544	115	3.46	13.82	-2.78	-12.23
232	258.13	116	1.47027	5.16	5.090643	116	3.45	13.82	-2.77	-12.22
234	258.17	117	1.524324	5.017143	5.119883	117	3.44	13.82	-2.76	-12.23

236	258.13	118	1.564865	4.845714	5.149123	118	3.47	13.82	-2.75	-12.23
238	258.16	119	1.618919	4.745714	5.163743	119	3.47	13.82	-2.74	-12.23
240	258.12	120	1.645946	4.631429	5.163743	120	3.48	13.82	-2.73	-12.23
242	258.16	121	1.713514	4.545714	5.222222	121	3.47	13.82	-2.72	-12.22
244	258.12	122	1.767568	4.502857	5.266082	122	3.46	13.82	-2.71	-12.21
246	258.14	123	1.808108	4.345714	5.280702	123	3.5	13.83	-2.69	-12.2
248	258.12	124	1.794595	4.217143	5.324561	124	3.5	13.82	-2.69	-12.2
250	258.15	125	1.835135	4.131429	5.368421	125	3.49	13.82	-2.68	-12.19
252	258.11	126	1.875676	4.017143	5.383041	126	3.48	13.82	-2.67	-12.2
254	258.16	127	1.889189	3.86	5.426901	127	3.49	13.82	-2.67	-12.19
256	258.11	128	1.92973	3.774286	5.412281	128	3.51	13.82	-2.66	-12.18
258	258.16	129	1.943243	3.702857	5.44152	129	3.51	13.82	-2.65	-12.19
260	258.1	130	1.956757	3.645714	5.48538	130	3.5	13.82	-2.64	-12.19
262	258.16	131	1.983784	3.574286	5.5	131	3.51	13.83	-2.62	-12.17
264	258.1	132	2.010811	3.517143	5.51462	132	3.53	13.83	-2.61	-12.18
266	258.14	133	2.037838	3.402857	5.52924	133	3.54	13.83	-2.6	-12.18
268	258.1	134	2.078378	3.26	5.54386	134	3.53	13.82	-2.6	-12.18
270	258.12	135	2.132432	3.188571	5.55848	135	3.52	13.82	-2.59	-12.18
272	258.1	136	2.118919	3.074286	5.55848	136	3.52	13.82	-2.58	-12.17
274	258.12	137	2.145946	3.017143	5.616959	137	3.55	13.82	-2.57	-12.16
276	258.1	138	2.145946	3.002857	5.690058	138	3.55	13.82	-2.56	-12.17
278	258.13	139	2.2	2.945714	5.719298	139	3.53	13.82	-2.56	-12.16
280	258.09	140	2.267568	2.845714	5.660819	140	3.53	13.82	-2.55	-12.15
282	258.12	141	2.308108	2.788571	5.704678	141	3.55	13.81	-2.55	-12.17
284	258.09	142	2.294595	2.745714	5.733918	142	3.56	13.82	-2.53	-12.16
286	258.11	143	2.294595	2.631429	5.777778	143	3.54	13.81	-2.53	-12.16
288	258.09	144	2.308108	2.56	5.807018	144	3.54	13.8	-2.53	-12.17
290	258.12	145	2.362162	2.517143	5.792398	145	3.57	13.81	-2.51	-12.16
292	258.08	146	2.375676	2.445714	5.792398	146	3.58	13.82	-2.5	-12.16
294	258.12	147	2.362162	2.402857	5.850877	147	3.57	13.82	-2.49	-12.16
296	258.08	148	2.402703	2.317143	5.880117	148	3.56	13.82	-2.48	-12.13
298	258.11	149	2.416216	2.231429	5.865497	149	3.59	13.82	-2.47	-12.12
300	258.08	150	2.42973	2.174286	5.836257	150	3.6	13.82	-2.47	-12.13
302	258.11	151	2.443243	2.074286	5.880117	151	3.58	13.81	-2.47	-12.13
304	258.07	152	2.443243	2.06	5.909357	152	3.56	13.81	-2.47	-12.13
306	258.12	153	2.456757	1.988571	5.938596	153	3.6	13.82	-2.45	-12.12
308	258.08	154	2.510811	1.945714	5.953216	154	3.61	13.82	-2.44	-12.12
310	258.09	155	2.510811	1.86	5.953216	155	3.61	13.83	-2.42	-12.1
312	258.08	156	2.524324	1.802857	5.953216	156	3.59	13.82	-2.43	-12.12
314	258.13	157	2.578378	1.802857	5.967836	157	3.61	13.82	-2.42	-12.11
316	258.06	158	2.632432	1.788571	5.997076	158	3.62	13.81	-2.42	-12.12
318	258.1	159	2.605405	1.688571	6.026316	159	3.62	13.81	-2.41	-12.13
320	258.07	160	2.632432	1.674286	6.040936	160	3.6	13.81	-2.41	-12.12
322	258.1	161	2.645946	1.602857	6.055556	161	3.6	13.8	-2.41	-12.12
324	258.07	162	2.672973	1.545714	6.070175	162	3.62	13.8	-2.4	-12.13

326	258.12	163	2.7	1.545714	6.040936	163	3.63	13.81	-2.39	-12.11
328	258.1	164	2.686486	1.474286	6.070175	164	3.62	13.81	-2.38	-12.11
330	258.06	165	2.659459	1.345714	6.070175	165	3.62	13.83	-2.36	-12.11
332	258.1	166	2.686486	1.274286	6.099415	166	3.67	13.86	-2.33	-12.08
334	258.06	167	2.713514	1.217143	6.084795	167	3.72	13.89	-2.28	-12.04
336	258.1	168	2.713514	1.202857	6.128655	168	3.72	13.91	-2.25	-12.03
338	258.06	169	2.754054	1.26	6.187135	169	3.73	13.93	-2.23	-12.02
340	258.06	170	2.781081	1.174286	6.172515	170	3.77	13.97	-2.19	-11.99
342	258.05	171	2.808108	1.117143	6.230994	171	3.8	13.98	-2.17	-11.99
344	258.11	172	2.794595	1.074286	6.245614	172	3.8	13.99	-2.17	-11.98
346	258.05	173	2.808108	1.045714	6.201754	173	3.79	13.99	-2.16	-11.98
348	258.07	174	2.835135	1.045714	6.230994	174	3.82	14	-2.14	-11.97
350	258.05	175	2.848649	1.002857	6.216374	175	3.85	14.01	-2.13	-11.97
352	258.06	176	2.889189	0.945714	6.216374	176	3.84	14	-2.13	-11.97
354	258.04	177	2.875676	0.874286	6.260234	177	3.82	14	-2.13	-11.98
356	258.12	178	2.889189	0.817143	6.274854	178	3.83	14	-2.12	-11.98
358	258.04	179	2.889189	0.817143	6.260234	179	3.84	13.99	-2.13	-11.98
360	258.05	180	2.889189	0.817143	6.245614	180	3.84	13.99	-2.12	-11.99
362	258.04	181	2.889189	0.745714	6.289474	181	3.82	13.99	-2.12	-11.99
364	258.08	182	2.902703	0.631429	6.289474	182	3.83	13.99	-2.12	-11.98
366	258.03	183	2.916216	0.545714	6.274854	183	3.85	13.99	-2.11	-12
368	258.07	184	2.943243	0.56	6.274854	184	3.86	13.99	-2.11	-12
370	258.04	185	2.983784	0.617143	6.304094	185	3.84	13.99	-2.1	-12.01
372	258.05	186	2.997297	0.56	6.304094	186	3.83	13.99	-2.1	-12.02
374	258.02	187	2.97027	0.502857	6.318713	187	3.87	13.99	-2.09	-12.01
376	258.09	188	2.97027	0.445714	6.318713	188	3.88	13.99	-2.08	-12
378	258.05	189	2.92973	0.46	6.347953	189	3.85	13.98	-2.09	-12.02
380	258.11	190	2.97027	0.46	6.362573	190	3.85	13.99	-2.08	-12
382	258.06	191	2.983784	0.388571	6.347953	191	3.88	14	-2.07	-12
384	258.03	192	2.983784	0.331429	6.347953	192	3.89	14	-2.06	-12.01
386	258.08	193	2.997297	0.317143	6.391813	193	3.87	14	-2.06	-12
388	258.03	194	3.037838	0.331429	6.391813	194	3.86	14	-2.06	-12.01
390	258.06	195	3.037838	0.274286	6.362573	195	3.9	14	-2.04	-12
392	258.03	196	3.064865	0.245714	6.377193	196	3.91	14.01	-2.03	-11.99
394	258.05	197	3.037838	0.245714	6.391813	197	3.89	14.01	-2.03	-11.99
396	258.03	198	3.051351	0.16	6.435673	198	3.88	14.01	-2.03	-12
398	258.06	199	3.091892	0.16	6.421053	199	3.92	14.02	-2.02	-11.99
400	258.07	200	3.091892	0.145714	6.406433	200	3.92	14.01	-2.01	-11.98
402	258.05	201	3.064865	0.131429	6.450292	201	3.9	14.01	-2.01	-12
404	258.09	202	3.064865	0.131429	6.450292	202	3.89	14.01	-2	-11.99
406	258.06	203	3.064865	0.045714	6.435673	203	3.92	14.02	-1.99	-11.98
408	258.03	204	3.105405	0.025714	6.464912	204	3.93	14.01	-1.99	-11.99
410	258.04	205	3.118919	0.068571	6.494152	205	3.92	14.01	-1.99	-11.99
412	258.1	206	3.091892	0.111429	6.494152	206	3.9	14.01	-1.99	-11.99
414	258.04	207	3.132432	0.068571	6.479532	207	3.91	14.01	-1.99	-12

416	258.13	208	3.118919	0.125714	6.494152	208	3.94	14.01	-1.97	-11.98
418	258.03	209	3.118919	0.197143	6.494152	209	3.94	14.02	-1.97	-11.98
420	258.11	210	3.132432	0.225714	6.479532	210	3.92	14.01	-1.97	-11.99
422	258.05	211	3.159459	0.254286	6.479532	211	3.92	14.01	-1.97	-11.99
424	258.12	212	3.145946	0.297143	6.523392	212	3.94	14.01	-1.97	-11.99
426	258.03	213	3.132432	0.311429	6.479532	213	3.95	14.01	-1.96	-12
428	258.13	214	3.159459	0.268571	6.479532	214	3.91	14	-1.97	-12
430	258.07	215	3.186486	0.297143	6.538012	215	3.91	13.99	-1.97	-12
432	258.05	216	3.227027	0.354286	6.538012	216	3.94	14	-1.96	-12.01
434	258.05	217	3.2	0.368571	6.538012	217	3.94	14	-1.96	-12.01
436	258.05	218	3.2	0.425714	6.567251	218	3.92	14	-1.95	-12
438	258.06	219	3.227027	0.34	6.567251	219	3.92	13.99	-1.96	-12.01
440	258.01	220	3.240541	0.382857	6.538012	220	3.94	14	-1.94	-12
442	258.05	221	3.227027	0.397143	6.538012	221	3.95	14	-1.94	-12
444	258.01	222	3.213514	0.397143	6.581871	222	3.93	14	-1.94	-12.01
446	258.04	223	3.213514	0.425714	6.581871	223	3.92	14	-1.94	-12.01
448	258.01	224	3.227027	0.511429	6.596491	224	3.95	14	-1.93	-11.99
450	258.04	225	3.254054	0.54	6.596491	225	3.95	14	-1.93	-12
452	258	226	3.267568	0.497143	6.567251	226	3.94	13.99	-1.93	-12.01
454	258.02	227	3.308108	0.525714	6.596491	227	3.93	14	-1.92	-12
456	258.01	228	3.281081	0.582857	6.640351	228	3.95	13.99	-1.93	-12.01
458	258.01	229	3.254054	0.597143	6.596491	229	3.96	14	-1.92	-11.99
460	258	230	3.281081	0.597143	6.625731	230	3.93	13.97	-1.93	-11.99
462	258.05	231	3.254054	0.625714	6.596491	231	3.89	13.94	-1.95	-12.02
464	258	232	3.240541	0.668571	6.581871	232	3.89	13.92	-1.97	-12.02
466	258.03	233	3.254054	0.668571	6.625731	233	3.87	13.9	-1.99	-12.04
468	257.98	234	3.308108	0.668571	6.625731	234	3.85	13.88	-2	-12.06
470	258.04	235	3.335135	0.711429	6.625731	235	3.81	13.85	-2.02	-12.07
472	257.99	236	3.335135	0.725714	6.640351	236	3.8	13.84	-2.03	-12.06
474	258.01	237	3.335135	0.754286	6.669591	237	3.8	13.82	-2.04	-12.08
476	257.99	238	3.321622	0.754286	6.640351	238	3.79	13.8	-2.06	-12.1
478	258.04	239	3.348649	0.768571	6.654971	239	3.76	13.79	-2.06	-12.1
		240	3.335135	0.797143	6.640351	240	3.74	13.79	-2.07	-12.11
		241	3.335135	0.854286	6.625731	241	3.76	13.78	-2.07	-12.1
		242	3.335135	0.825714	6.669591	242	3.76	13.77	-2.07	-12.1
		243	3.335135	0.811429	6.69883	243	3.73	13.77	-2.08	-12.11
		244	3.348649	0.84	6.71345	244	3.72	13.76	-2.08	-12.1
		245	3.335135	0.94	6.71345	245	3.75	13.76	-2.07	-12.1
		246	3.362162	0.954286	6.72807	246	3.74	13.75	-2.08	-12.12
		247	3.321622	0.882857	6.74269	247	3.73	13.76	-2.07	-12.11
		248	3.335135	0.911429	6.72807	248	3.72	13.76	-2.07	-12.1
		249	3.321622	0.897143	6.74269	249	3.75	13.76	-2.07	-12.11
		250	3.348649	0.954286	6.72807	250	3.75	13.76	-2.06	-12.09
		251	3.335135	0.997143	6.71345	251	3.73	13.76	-2.06	-12.09
		252	3.348649	0.997143	6.72807	252	3.73	13.76	-2.06	-12.1

253	3.375676	0.982857	6.71345	253	3.75	13.77	-2.05	-12.08
254	3.402703	0.968571	6.71345	254	3.77	13.77	-2.04	-12.08
255	3.375676	0.954286	6.71345	255	3.75	13.77	-2.04	-12.09
256	3.402703	0.997143	6.74269	256	3.74	13.77	-2.04	-12.09
257	3.389189	1.068571	6.74269	257	3.75	13.77	-2.04	-12.09
258	3.375676	1.054286	6.77193	258	3.77	13.78	-2.04	-12.09
259	3.389189	1.068571	6.78655	259	3.75	13.78	-2.03	-12.08
260	3.389189	1.125714	6.74269	260	3.75	13.78	-2.03	-12.07
261	3.402703	1.082857	6.72807	261	3.78	13.79	-2.02	-12.08
262	3.402703	1.068571	6.72807	262	3.78	13.79	-2.02	-12.07
263	3.389189	1.097143	6.74269	263	3.77	13.8	-2.01	-12.06
264	3.416216	1.111429	6.77193	264	3.76	13.79	-2.01	-12.07
265	3.416216	1.111429	6.74269	265	3.79	13.8	-2	-12.07
266	3.42973	1.197143	6.78655	266	3.79	13.8	-2	-12.07
267	3.389189	1.197143	6.830409	267	3.77	13.8	-2	-12.08
268	3.416216	1.268571	6.830409	268	3.77	13.8	-2	-12.07
269	3.443243	1.211429	6.80117	269	3.8	13.81	-1.99	-12.06
270	3.456757	1.225714	6.75731	270	3.81	13.82	-1.98	-12.06
271	3.47027	1.254286	6.78655	271	3.79	13.81	-1.98	-12.07
272	3.47027	1.225714	6.815789	272	3.79	13.82	-1.98	-12.06
273	3.47027	1.268571	6.80117	273	3.81	13.82	-1.97	-12.07
274	3.456757	1.268571	6.845029	274	3.83	13.83	-1.97	-12.06
275	3.47027	1.268571	6.830409	275	3.81	13.83	-1.96	-12.05
276	3.47027	1.282857	6.80117	276	3.8	13.83	-1.96	-12.05
277	3.483784	1.311429	6.80117	277	3.83	13.84	-1.95	-12.05
278	3.497297	1.354286	6.80117	278	3.84	13.84	-1.95	-12.03
279	3.47027	1.297143	6.815789	279	3.83	13.85	-1.94	-12.04
280	3.47027	1.34	6.80117	280	3.81	13.84	-1.95	-12.05
281	3.443243	1.354286	6.845029	281	3.83	13.84	-1.95	-12.05
282	3.47027	1.368571	6.859649	282	3.83	13.84	-1.95	-12.05
283	3.47027	1.397143	6.845029	283	3.82	13.84	-1.94	-12.06
284	3.483784	1.382857	6.830409	284	3.81	13.85	-1.94	-12.04
285	3.524324	1.368571	6.845029	285	3.84	13.85	-1.93	-12.04
286	3.510811	1.397143	6.830409	286	3.85	13.85	-1.93	-12.05
287	3.497297	1.454286	6.859649	287	3.83	13.85	-1.93	-12.04
288	3.483784	1.44	6.830409	288	3.82	13.86	-1.92	-12.04
289	3.456757	1.454286	6.815789	289	3.85	13.87	-1.92	-12.04
290	3.47027	1.454286	6.830409	290	3.87	13.87	-1.91	-12.02
291	3.47027	1.468571	6.830409	291	3.86	13.88	-1.91	-12.03
292	3.497297	1.54	6.830409	292	3.84	13.88	-1.91	-12.04
293	3.497297	1.511429	6.845029	293	3.86	13.88	-1.91	-12.03
294	3.497297	1.497143	6.845029	294	3.88	13.88	-1.9	-12.03
295	3.497297	1.482857	6.845029	295	3.88	13.89	-1.89	-12.02
296	3.510811	1.525714	6.859649	296	3.85	13.89	-1.89	-12.01
297	3.551351	1.497143	6.859649	297	3.88	13.89	-1.89	-12.02

298	3.497297	1.482857	6.859649	298	3.9	13.9	-1.88	-12.02
299	3.483784	1.511429	6.903509	299	3.88	13.9	-1.88	-12.01
300	3.497297	1.525714	6.874269	300	3.87	13.9	-1.87	-12.02
301	3.510811	1.582857	6.830409	301	3.89	13.91	-1.87	-12.02
302	3.537838	1.554286	6.859649	302	3.91	13.91	-1.87	-12.01
303	3.524324	1.597143	6.874269	303	3.91	13.91	-1.86	-12.01
304	3.524324	1.64	6.859649	304	3.89	13.92	-1.86	-12.02
305	3.524324	1.554286	6.845029	305	3.91	13.92	-1.86	-12.01
306	3.551351	1.511429	6.859649	306	3.92	13.92	-1.85	-12.01
307	3.551351	1.582857	6.845029	307	3.92	13.93	-1.85	-12.01
308	3.524324	1.582857	6.859649	308	3.89	13.92	-1.85	-12
309	3.524324	1.54	6.932749	309	3.92	13.93	-1.84	-12
310	3.537838	1.611429	6.932749	310	3.94	13.93	-1.84	-12
311	3.564865	1.625714	6.918129	311	3.93	13.94	-1.83	-11.99
312	3.564865	1.611429	6.903509	312	3.91	13.94	-1.83	-12
313	3.578378	1.597143	6.903509	313	3.92	13.94	-1.83	-12
314	3.578378	1.582857	6.888889	314	3.94	13.94	-1.83	-11.99
315	3.591892	1.611429	6.932749	315	3.95	13.94	-1.82	-11.99
316	3.591892	1.64	6.947368	316	3.91	13.93	-1.83	-12.01
317	3.578378	1.668571	6.932749	317	3.92	13.94	-1.83	-12
318	3.564865	1.64	6.888889	318	3.95	13.94	-1.82	-12
319	3.564865	1.668571	6.874269	319	3.95	13.95	-1.82	-12
320	3.564865	1.725714	6.903509	320	3.93	13.95	-1.81	-11.99
321	3.564865	1.74	6.903509	321	3.95	13.96	-1.8	-11.98
322	3.578378	1.697143	6.918129	322	3.96	13.96	-1.8	-11.99
323	3.578378	1.725714	6.932749	323	3.96	13.96	-1.8	-11.98
324	3.591892	1.811429	6.932749	324	3.93	13.96	-1.8	-11.99
325	3.605405	1.811429	6.947368	325	3.95	13.95	-1.81	-12.01
326	3.618919	1.768571	6.918129	326	3.97	13.96	-1.8	-11.99
327	3.591892	1.768571	6.918129	327	3.96	13.96	-1.8	-12
328	3.578378	1.782857	6.918129	328	3.94	13.96	-1.8	-12.01
329	3.591892	1.754286	6.918129	329	3.95	13.96	-1.8	-12
330	3.578378	1.754286	6.918129	330	3.97	13.96	-1.8	-12.01
331	3.591892	1.811429	6.932749	331	3.97	13.97	-1.79	-12
332	3.578378	1.825714	6.888889	332	3.95	13.97	-1.79	-12
333	3.591892	1.84	6.918129	333	3.97	13.98	-1.79	-11.99
334	3.605405	1.84	6.918129	334	3.99	13.98	-1.78	-12
335	3.605405	1.854286	6.947368	335	3.99	13.98	-1.78	-11.99
336	3.605405	1.854286	6.976608	336	3.97	13.98	-1.78	-11.99
337	3.618919	1.84	6.961988	337	3.97	13.98	-1.78	-11.99
338	3.605405	1.882857	6.961988	338	3.99	13.98	-1.78	-11.98
339	3.591892	1.897143	6.932749	339	4	13.99	-1.77	-11.98
340	3.632432	1.868571	6.932749	340	3.98	13.99	-1.77	-11.99
341	3.672973	1.854286	6.947368	341	3.98	13.99	-1.77	-11.98
342	3.632432	1.925714	6.947368	342	4	14	-1.76	-11.98

343	3.605405	1.897143	6.932749	343	4	13.99	-1.76	-11.99
344	3.618919	1.911429	6.932749	344	3.99	14	-1.76	-11.98
345	3.645946	1.911429	6.947368	345	3.98	14	-1.76	-11.98
346	3.618919	1.925714	6.976608	346	3.99	14	-1.76	-11.99
347	3.618919	1.911429	6.976608	347	4.01	14	-1.76	-11.99
348	3.605405	1.968571	6.961988	348	4.01	14	-1.76	-11.99
349	3.645946	1.954286	6.961988	349	3.99	14	-1.76	-11.99
350	3.618919	1.968571	6.961988	350	3.99	14	-1.76	-11.98
351	3.591892	2.011429	6.976608	351	4.01	14.01	-1.75	-11.98
352	3.645946	2.025714	6.947368	352	4.02	14	-1.75	-12
353	3.645946	1.954286	6.976608	353	3.99	14	-1.76	-12
354	3.605405	1.968571	7.005848	354	3.98	14	-1.76	-12
355	3.605405	1.997143	6.991228	355	4.01	14	-1.76	-12.01
356	3.645946	2.011429	6.991228	356	4.02	14.01	-1.75	-11.99
357	3.659459	2.011429	7.005848	357	4.01	14.02	-1.74	-11.98
358	3.659459	2.04	6.991228	358	4	14.02	-1.74	-11.99
359	3.7	2.068571	6.961988	359	4.02	14.02	-1.74	-11.99
360	3.686486	2.054286	6.961988	360	4.03	14.02	-1.74	-11.99
361	3.645946	2.125714	7.020468	361	4.01	14.01	-1.74	-12
362	3.686486	2.082857	7.020468	362	4	14.02	-1.74	-11.99
363	3.672973	2.082857	7.005848	363	4.03	14.03	-1.73	-11.97
364	3.672973	2.082857	7.035088	364	4.04	14.03	-1.73	-11.99
365	3.686486	2.111429	6.991228	365	4.02	14.03	-1.73	-11.99
366	3.659459	2.125714	7.005848	366	4.01	14.03	-1.73	-11.99
367	3.686486	2.125714	7.005848	367	4.04	14.03	-1.73	-12
368	3.686486	2.068571	6.976608	368	4.05	14.04	-1.72	-11.99
369	3.645946	2.025714	7.005848	369	4.03	14.04	-1.72	-11.97
370	3.618919	2.154286	7.005848	370	4.01	14.04	-1.72	-11.99
371	3.632432	2.182857	7.005848	371	4.05	14.04	-1.72	-11.99
372	3.659459	2.082857	7.020468	372	4.05	14.04	-1.72	-11.98
373	3.7	2.04	7.035088	373	4.04	14.04	-1.72	-11.99
374	3.672973	2.082857	7.049708	374	4.02	14.04	-1.72	-11.98
375	3.659459	2.111429	7.020468	375	4.05	14.05	-1.71	-11.97
376	3.632432	2.14	7.005848	376	4.07	14.05	-1.71	-11.98
377	3.672973	2.125714	7.035088	377	4.06	14.05	-1.71	-11.99
378	3.713514	2.154286	7.020468	378	4.03	14.05	-1.71	-11.99
379	3.686486	2.168571	7.005848	379	4.04	14.04	-1.71	-12
380	3.686486	2.168571	7.035088	380	4.06	14.05	-1.71	-11.99
381	3.686486	2.211429	7.020468	381	4.06	14.05	-1.71	-11.98
382	3.713514	2.168571	7.064327	382	4.04	14.06	-1.7	-11.98
383	3.713514	2.182857	7.078947	383	4.06	14.06	-1.69	-11.98
384	3.727027	2.24	7.049708	384	4.07	14.06	-1.69	-11.97
385	3.713514	2.225714	7.035088	385	4.07	14.07	-1.69	-11.98
386	3.713514	2.254286	7.020468	386	4.05	14.07	-1.69	-11.97
387	3.713514	2.268571	7.035088	387	4.05	14.06	-1.7	-11.97

388	3.7	2.254286	7.005848	388	4.08	14.07	-1.69	-11.98
389	3.740541	2.254286	6.976608	389	4.07	14.07	-1.69	-11.98
390	3.7	2.182857	7.020468	390	4.05	14.06	-1.7	-11.98
391	3.672973	2.225714	7.049708	391	4.05	14.06	-1.7	-12
392	3.659459	2.211429	7.035088	392	4.08	14.07	-1.69	-11.98
393	3.672973	2.24	7.020468	393	4.08	14.07	-1.69	-11.98
394	3.7	2.24	7.035088	394	4.05	14.07	-1.69	-11.98
395	3.686486	2.225714	7.049708	395	4.06	14.08	-1.68	-11.97
396	3.7	2.182857	7.064327	396	4.08	14.08	-1.68	-11.97
397	3.740541	2.197143	7.078947	397	4.08	14.08	-1.68	-11.98
398	3.727027	2.211429	7.078947	398	4.08	14.08	-1.68	-11.97
399	3.740541	2.211429	7.064327	399	4.06	14.08	-1.68	-11.97
400	3.7	2.225714	7.064327	400	4.08	14.08	-1.68	-11.98
401	3.7	2.24	7.035088	401	4.09	14.09	-1.67	-11.96
402	3.713514	2.282857	7.049708	402	4.09	14.09	-1.68	-11.96
403	3.7	2.24	7.093567	403	4.08	14.09	-1.67	-11.97
404	3.713514	2.311429	7.064327	404	4.08	14.1	-1.66	-11.96
405	3.713514	2.268571	7.078947	405	4.09	14.1	-1.67	-11.96
406	3.7	2.268571	7.093567	406	4.11	14.1	-1.67	-11.97
407	3.7	2.297143	7.064327	407	4.08	14.1	-1.67	-11.96
408	3.727027	2.282857	7.078947	408	4.08	14.1	-1.67	-11.96
409	3.740541	2.24	7.078947	409	4.11	14.11	-1.66	-11.97
410	3.794595	2.297143	7.078947	410	4.11	14.1	-1.66	-11.96
411	3.781081	2.297143	7.078947	411	4.08	14.1	-1.66	-11.96
412	3.713514	2.268571	7.093567	412	4.1	14.11	-1.66	-11.96
413	3.740541	2.297143	7.122807	413	4.11	14.11	-1.66	-11.95
414	3.754054	2.311429	7.108187	414	4.12	14.12	-1.65	-11.95
415	3.754054	2.297143	7.093567	415	4.09	14.11	-1.66	-11.96
416	3.740541	2.311429	7.093567	416	4.11	14.12	-1.65	-11.95
417	3.727027	2.311429	7.093567	417	4.12	14.12	-1.65	-11.94
418	3.713514	2.311429	7.064327	418	4.12	14.12	-1.65	-11.96
419	3.686486	2.368571	7.064327	419	4.09	14.12	-1.65	-11.95
420	3.713514	2.354286	7.108187	420	4.11	14.12	-1.65	-11.95
421	3.727027	2.325714	7.122807	421	4.12	14.12	-1.65	-11.96
422	3.740541	2.282857	7.093567	422	4.13	14.13	-1.64	-11.95
423	3.740541	2.325714	7.108187	423	4.1	14.13	-1.65	-11.95
424	3.767568	2.354286	7.122807	424	4.12	14.13	-1.65	-11.96
425	3.781081	2.44	7.137427	425	4.14	14.14	-1.64	-11.95
426	3.794595	2.34	7.122807	426	4.13	14.13	-1.64	-11.96
427	3.781081	2.368571	7.137427	427	4.11	14.13	-1.64	-11.96
428	3.767568	2.411429	7.122807	428	4.12	14.13	-1.64	-11.96
429	3.767568	2.44	7.122807	429	4.14	14.14	-1.64	-11.95
430	3.767568	2.397143	7.122807	430	4.13	14.14	-1.63	-11.96
431	3.754054	2.382857	7.152047	431	4.11	14.14	-1.64	-11.95
432	3.754054	2.44	7.137427	432	4.13	14.14	-1.63	-11.95

433	3.740541	2.44	7.166667	433	4.14	14.15	-1.63	-11.96
434	3.727027	2.411429	7.166667	434	4.14	14.14	-1.63	-11.95
435	3.713514	2.397143	7.122807	435	4.11	14.14	-1.63	-11.95
436	3.754054	2.411429	7.122807	436	4.12	14.14	-1.64	-11.97
437	3.740541	2.397143	7.108187	437	4.14	14.14	-1.63	-11.96
438	3.740541	2.44	7.078947	438	4.14	14.15	-1.63	-11.95
439	3.727027	2.425714	7.093567	439	4.12	14.15	-1.63	-11.96
440	3.713514	2.44	7.122807	440	4.14	14.16	-1.63	-11.96
441	3.740541	2.497143	7.122807	441	4.15	14.16	-1.63	-11.95
442	3.740541	2.454286	7.122807	442	4.15	14.15	-1.63	-11.97
443	3.740541	2.454286	7.122807	443	4.12	14.16	-1.63	-11.96
444	3.754054	2.482857	7.122807	444	4.14	14.15	-1.63	-11.96
445	3.781081	2.468571	7.122807	445	4.15	14.15	-1.63	-11.97
446	3.767568	2.468571	7.137427	446	4.14	14.15	-1.63	-11.97
447	3.781081	2.497143	7.137427	447	4.13	14.16	-1.63	-11.96
448	3.794595	2.482857	7.181287	448	4.14	14.16	-1.63	-11.97
449	3.754054	2.497143	7.152047	449	4.16	14.17	-1.62	-11.96
450	3.727027	2.454286	7.137427	450	4.15	14.17	-1.62	-11.96
451	3.740541	2.468571	7.137427	451	4.13	14.17	-1.62	-11.97
452	3.754054	2.525714	7.152047	452	4.16	14.17	-1.62	-11.95
453	3.740541	2.525714	7.122807	453	4.17	14.18	-1.61	-11.95
454	3.740541	2.525714	7.137427	454	4.17	14.17	-1.62	-11.97
455	3.794595	2.511429	7.137427	455	4.14	14.18	-1.62	-11.96
456	3.794595	2.554286	7.122807	456	4.16	14.18	-1.61	-11.95
457	3.794595	2.568571	7.166667	457	4.18	14.18	-1.61	-11.95
458	3.808108	2.568571	7.166667	458	4.18	14.19	-1.61	-11.95
459	3.767568	2.582857	7.122807	459	4.16	14.19	-1.61	-11.95
460	3.808108	2.554286	7.137427	460	4.16	14.19	-1.61	-11.96
461	3.781081	2.511429	7.137427	461	4.17	14.19	-1.61	-11.96
462	3.781081	2.554286	7.137427	462	4.19	14.19	-1.6	-11.95
463	3.794595	2.54	7.152047	463	4.16	14.19	-1.6	-11.96
464	3.808108	2.568571	7.152047	464	4.17	14.19	-1.6	-11.95
465	3.767568	2.582857	7.108187	465	4.18	14.19	-1.6	-11.95
466	3.781081	2.582857	7.122807	466	4.18	14.19	-1.6	-11.96
467	3.781081	2.597143	7.137427	467	4.16	14.2	-1.6	-11.95
468	3.767568	2.611429	7.166667	468	4.16	14.2	-1.6	-11.94
469	3.781081	2.597143	7.152047	469	4.18	14.2	-1.59	-11.95
470	3.781081	2.611429	7.108187	470	4.2	14.21	-1.59	-11.95
471	3.808108	2.582857	7.122807	471	4.18	14.21	-1.59	-11.95
472	3.808108	2.54	7.137427	472	4.16	14.2	-1.6	-11.96
473	3.794595	2.568571	7.122807	473	4.18	14.2	-1.6	-11.96
474	3.794595	2.582857	7.122807	474	4.2	14.21	-1.59	-11.94
475	3.808108	2.582857	7.122807	475	4.19	14.22	-1.59	-11.95
476	3.835135	2.611429	7.122807	476	4.17	14.22	-1.59	-11.95
477	3.821622	2.654286	7.152047	477	4.19	14.22	-1.59	-11.94

478 3.835135 2.582857 7.166667 478 4.2 14.22 -1.59 -11.95

HigherRH_exp_5

Experiment type: Higher humidity experiment. This experiment consisted of just an empty petridish. The two humidity buffers were NaCl which have a RH of 75% at 0 degrees Celsius. One of the buffers is raised 15.25 cm off the chamber floor. The sample was raised 13.3 cm off the chamber floor. Chiller was set to - 15°C. Temperature around the sample was controlled by the chiller. The pressure ranged from 10-11.3 mbar. N₂ mixed with 500 ppm H₂O gas was fed into the chamber.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= atmosphere 3= humidity buffer 4= sample

Mass Min.	Mass	RH Min.	Ch02	Ch03	Ch04	T Min.	Ch01	Ch02	Ch03	Ch04
0	254.71	0	10.89773	12.55382	6.464174	0	7.11	5.58	-1	-9.35
2	255.49	1	11.05398	12.70059	5.996885	1	3.45	3.63	-1.02	-8.97
4	255.5	2	10.98295	12.23092	4.766355	2	-3.14	0.73	-1.4	-12.43
6	255.46	3	9.747159	11.7319	3.738318	3	-0.95	1.01	-1.68	-12.11
8	255.51	4	7.744318	12.04501	3.34891	4	0.93	2.16	-1.86	-11.69
10	255.52	5	5.954545	12.40705	2.975078	5	1.41	2.67	-2.04	-11.23
12	255.49	6	4.704545	12.51468	2.647975	6	2.51	3.45	-2.41	-10.54
14	255.49	7	4.065341	12.45597	2.834891	7	3.45	4.02	-3.02	-9.89
16	255.49	8	4.079545	12.40705	3.535826	8	3.84	4.24	-3.59	-9.51
18	255.49	9	4.448864	12.38748	4.4081	9	4.08	4.38	-4.04	-9.28
20	255.53	10	4.974432	12.44618	5.155763	10	4.19	4.47	-4.34	-9.14
22	255.53	11	5.556818	12.52446	5.700935	11	4.23	4.51	-4.53	-9.04
24	255.5	12	6.068182	12.63209	6.137072	12	4.24	4.55	-4.64	-8.97
26	255.5	13	6.4375	12.72994	6.464174	13	4.25	4.59	-4.7	-8.91
28	255.51	14	6.693182	12.82779	6.697819	14	4.25	4.62	-4.74	-8.85
30	255.51	15	6.863636	12.95499	6.900312	15	4.25	4.65	-4.77	-8.8
32	255.54	16	7.019886	13.08219	7.056075	16	4.23	4.67	-4.77	-8.77
34	255.54	17	7.190341	13.13112	7.196262	17	4.24	4.71	-4.77	-8.72
36	255.5	18	7.332386	13.17025	7.352025	18	4.23	4.73	-4.77	-8.69
38	255.51	19	7.375	13.22896	7.476636	19	4.23	4.76	-4.76	-8.65
40	255.54	20	7.417614	13.27789	7.554517	20	4.23	4.78	-4.75	-8.62

42	255.54	21	7.488636	13.30724	7.663551	21	4.22	4.8	-4.74	-8.59
44	255.51	22	7.588068	13.30724	7.757009	22	4.23	4.82	-4.72	-8.56
46	255.51	23	7.659091	13.35616	7.866044	23	4.22	4.84	-4.7	-8.53
48	255.55	24	7.701705	13.43444	7.943925	24	4.21	4.85	-4.68	-8.51
50	255.55	25	7.786932	13.47358	7.912773	25	4.21	4.87	-4.67	-8.48
52	255.51	26	7.857955	13.54207	7.912773	26	4.21	4.89	-4.66	-8.46
54	255.52	27	7.872159	13.591	7.975078	27	4.22	4.91	-4.66	-8.42
56	255.51	28	7.872159	13.63992	8.021807	28	4.22	4.93	-4.66	-8.4
58	255.54	29	7.914773	13.69863	8.037383	29	4.22	4.95	-4.67	-8.37
60	255.55	30	7.971591	13.69863	8.084112	30	4.22	4.96	-4.68	-8.36
62	255.51	31	7.971591	13.69863	8.17757	31	4.22	4.98	-4.69	-8.33
64	255.55	32	8	13.67906	8.17757	32	4.23	5	-4.73	-8.31
66	255.55	33	8.028409	13.73777	8.208723	33	4.24	5.02	-4.76	-8.28
68	255.55	34	8.056818	13.80626	8.239875	34	4.23	5.02	-4.79	-8.26
70	255.51	35	8.099432	13.86497	8.255452	35	4.24	5.04	-4.82	-8.24
72	255.51	36	8.127841	13.90411	8.255452	36	4.23	5.05	-4.84	-8.23
74	255.55	37	8.241477	13.94325	8.317757	37	4.23	5.06	-4.92	-8.2
76	255.55	38	8.269886	13.90411	8.395639	38	4.23	5.07	-5	-8.19
78	255.52	39	8.269886	13.91389	8.426791	39	4.24	5.09	-5.07	-8.17
80	255.52	40	8.3125	13.9726	8.364486	40	4.26	5.11	-5.12	-8.14
82	255.55	41	8.284091	13.99217	8.380062	41	4.26	5.13	-5.14	-8.13
84	255.55	42	8.227273	13.96282	8.34891	42	4.27	5.14	-5.15	-8.11
86	255.52	43	8.198864	13.94325	8.395639	43	4.28	5.16	-5.16	-8.08
88	255.52	44	8.184659	13.95303	8.395639	44	4.27	5.16	-5.16	-8.07
90	255.55	45	8.198864	13.95303	8.411215	45	4.27	5.17	-5.15	-8.06
92	255.53	46	8.170455	13.95303	8.395639	46	4.28	5.19	-5.12	-8.03
94	255.52	47	8.170455	13.94325	8.411215	47	4.28	5.19	-5.08	-8.02
96	255.52	48	8.184659	13.95303	8.333333	48	4.31	5.22	-5.02	-7.99
98	255.56	49	8.227273	14.01174	8.364486	49	4.31	5.24	-4.97	-7.97
100	255.52	50	8.184659	13.99217	8.34891	50	4.32	5.25	-4.91	-7.95
102	255.53	51	8.170455	13.93346	8.317757	51	4.33	5.26	-4.85	-7.94
104	255.56	52	8.127841	13.98239	8.317757	52	4.33	5.27	-4.79	-7.92
106	255.56	53	8.15625	13.99217	8.380062	53	4.34	5.28	-4.68	-7.9
108	255.52	54	8.127841	13.93346	8.380062	54	4.34	5.29	-4.59	-7.89
110	255.53	55	8.085227	13.94325	8.271028	55	4.34	5.3	-4.49	-7.87
112	255.56	56	8.056818	13.94325	8.239875	56	4.35	5.31	-4.37	-7.85
114	255.52	57	8.014205	13.91389	8.239875	57	4.36	5.33	-4.22	-7.83
116	255.53	58	8.014205	13.88454	8.17757	58	4.37	5.34	-4.07	-7.81
118	255.56	59	7.957386	13.85519	8.130841	59	4.39	5.36	-3.93	-7.79
120	255.56	60	7.943182	13.89432	8.130841	60	4.39	5.38	-3.81	-7.77
122	255.53	61	7.943182	13.85519	8.130841	61	4.4	5.39	-3.68	-7.74
124	255.53	62	7.928977	13.77691	8.115265	62	4.42	5.43	-3.54	-7.71
126	255.56	63	7.928977	13.79648	8.068536	63	4.44	5.45	-3.42	-7.68
128	255.53	64	7.900568	13.75734	8.05296	64	4.49	5.52	-3.25	-7.63
130	255.56	65	7.857955	13.70841	8.037383	65	4.53	5.57	-3.1	-7.59

132	255.56	66	7.84375	13.68885	8.006231	66	4.56	5.61	-2.99	-7.55
134	255.53	67	7.772727	13.67906	7.975078	67	4.59	5.66	-2.87	-7.51
136	255.53	68	7.744318	13.62035	7.990654	68	4.6	5.68	-2.75	-7.48
138	255.56	69	7.730114	13.57143	7.990654	69	4.62	5.7	-2.63	-7.46
140	255.53	70	7.730114	13.57143	7.897196	70	4.63	5.72	-2.5	-7.43
142	255.53	71	7.6875	13.50294	7.88162	71	4.63	5.74	-2.4	-7.41
144	255.57	72	7.701705	13.49315	7.850467	72	4.65	5.76	-2.32	-7.39
146	255.54	73	7.644886	13.45401	7.757009	73	4.67	5.79	-2.22	-7.36
148	255.53	74	7.588068	13.41487	7.725857	74	4.69	5.82	-2.11	-7.34
150	255.57	75	7.517045	13.38552	7.725857	75	4.71	5.84	-2.02	-7.32
152	255.53	76	7.474432	13.38552	7.725857	76	4.73	5.86	-1.91	-7.29
154	255.53	77	7.502841	13.34638	7.679128	77	4.73	5.87	-1.82	-7.27
156	255.57	78	7.517045	13.31703	7.71028	78	4.73	5.88	-1.72	-7.25
158	255.53	79	7.517045	13.31703	7.725857	79	4.71	5.87	-1.66	-7.24
160	255.57	80	7.460227	13.32681	7.679128	80	4.71	5.86	-1.61	-7.24
162	255.57	81	7.389205	13.27789	7.632399	81	4.71	5.87	-1.56	-7.22
164	255.53	82	7.346591	13.27789	7.570093	82	4.72	5.89	-1.51	-7.19
166	255.53	83	7.303977	13.29746	7.507788	83	4.74	5.9	-1.48	-7.17
168	255.57	84	7.261364	13.25832	7.476636	84	4.73	5.9	-1.47	-7.16
170	255.53	85	7.21875	13.25832	7.429907	85	4.75	5.91	-1.36	-7.14
172	255.57	86	7.147727	13.22896	7.445483	86	4.76	5.93	-1.3	-7.11
174	255.57	87	7.105114	13.18982	7.398754	87	4.73	5.91	-1.28	-7.11
176	255.53	88	7.0625	13.72798	7.383178	88	4.74	5.92	-1.22	-7.08
178	255.57	89	7.076705	13.67906	7.352025	89	4.74	5.93	-1.17	-7.06
180	255.57	90	7.005682	13.17025	7.28972	90	4.77	5.96	-1.11	-7.03
182	255.54	91	6.934659	13.11155	7.274143	91	4.76	5.96	-1.07	-7.02
184	255.58	92	6.920455	13.13112	7.305296	92	4.78	5.98	-1.04	-6.99
186	255.53	93	6.963068	13.1409	7.28972	93	4.75	5.97	-1.02	-6.98
188	255.54	94	6.963068	13.09198	7.227414	94	4.76	5.98	-0.99	-6.95
190	255.57	95	6.90625	13.03327	7.227414	95	4.76	5.97	-0.97	-6.93
192	255.54	96	6.821023	13.00391	7.149533	96	4.76	5.98	-0.95	-6.91
194	255.57	97	6.821023	13.05284	7.040498	97	4.78	6	-0.94	-6.89
196	255.57	98	6.877841	13.02348	7.009346	98	4.78	6	-0.91	-6.86
198	255.54	99	6.806818	12.93542	7.009346	99	4.78	6	-0.9	-6.85
200	255.57	100	6.764205	12.95499	7.009346	100	4.78	6.01	-0.87	-6.82
202	255.57	101	6.721591	12.98434	6.978193	101	4.77	6.01	-0.85	-6.79
204	255.53	102	6.693182	12.93542	6.978193	102	4.77	6.02	-0.83	-6.77
206	255.57	103	6.650568	12.85714	6.900312	103	4.79	6.04	-0.81	-6.74
208	255.52	104	6.622159	12.89628	6.869159	104	4.81	6.06	-0.79	-6.71
210	255.56	105	6.565341	12.85714	6.853583	105	4.81	6.07	-0.76	-6.68
212	255.56	106	6.494318	12.818	6.838006	106	4.82	6.08	-0.75	-6.65
214	255.52	107	6.465909	12.77886	6.775701	107	4.8	6.07	-0.73	-6.63
216	255.56	108	6.4375	12.76908	6.713396	108	4.79	6.07	-0.72	-6.62
218	255.52	109	6.394886	12.7593	6.682243	109	4.79	6.07	-0.7	-6.58
220	255.52	110	6.338068	12.7593	6.65109	110	4.8	6.08	-0.68	-6.56

222	255.56	111	6.267045	12.72016	6.635514	111	4.8	6.09	-0.66	-6.53
224	255.52	112	6.196023	12.72994	6.619938	112	4.83	6.12	-0.64	-6.49
226	255.56	113	6.181818	12.65166	6.588785	113	4.83	6.13	-0.62	-6.46
228	255.56	114	6.210227	12.62231	6.557632	114	4.84	6.15	-0.59	-6.43
230	255.52	115	6.125	12.58317	6.448598	115	4.84	6.16	-0.56	-6.4
232	255.56	116	6.096591	12.5636	6.401869	116	4.84	6.17	-0.53	-6.38
234	255.52	117	6.096591	12.57339	6.35514	117	4.82	6.15	-0.52	-6.37
236	255.52	118	6.039773	12.57339	6.308411	118	4.81	6.14	-0.51	-6.36
238	255.56	119	5.982955	12.54403	6.292835	119	4.8	6.13	-0.53	-6.36
240	255.52	120	5.926136	12.46575	6.308411	120	4.78	6.11	-0.54	-6.36
242	255.52	121	5.897727	12.47554	6.23053	121	4.76	6.09	-0.55	-6.36
244	255.55	122	5.826705	12.42661	6.183801	122	4.73	6.06	-0.55	-6.36
246	255.52	123	5.855114	12.42661	6.152648	123	4.71	6.04	-0.55	-6.36
248	255.56	124	5.840909	12.39726	6.090343	124	4.7	6.03	-0.54	-6.36
250	255.51	125	5.798295	12.38748	6.043614	125	4.71	6.04	-0.53	-6.34
252	255.52	126	5.755682	12.39726	6.028037	126	4.71	6.04	-0.53	-6.33
254	255.56	127	5.684659	12.38748	6.028037	127	4.71	6.04	-0.52	-6.32
256	255.51	128	5.627841	12.37769	5.996885	128	4.69	6.03	-0.52	-6.31
258	255.59	129	5.585227	12.33855	5.934579	129	4.68	6.02	-0.52	-6.31
260	255.55	130	5.528409	12.34834	5.872274	130	4.68	6.02	-0.51	-6.3
262	255.52	131	5.485795	12.31898	5.841121	131	4.69	6.03	-0.51	-6.28
264	255.55	132	5.457386	12.29941	5.841121	132	4.7	6.05	-0.5	-6.27
266	255.51	133	5.471591	12.2407	5.825545	133	4.7	6.05	-0.49	-6.25
268	255.51	134	5.471591	12.20157	5.809969	134	4.7	6.05	-0.49	-6.24
270	255.54	135	5.443182	12.17221	5.76324	135	4.68	6.04	-0.48	-6.23
272	255.5	136	5.386364	12.12329	5.716511	136	4.68	6.04	-0.47	-6.23
274	255.54	137	5.372159	12.09393	5.669782	137	4.68	6.05	-0.47	-6.22
276	255.5	138	5.329545	12.1135	5.638629	138	4.7	6.06	-0.46	-6.2
278	255.5	139	5.301136	12.09393	5.5919	139	4.72	6.08	-0.45	-6.18
280	255.54	140	5.301136	12.04501	5.576324	140	4.72	6.09	-0.43	-6.17
282	255.5	141	5.272727	12.01566	5.498442	141	4.7	6.08	-0.42	-6.16
284	255.54	142	5.173295	11.9863	5.420561	142	4.71	6.09	-0.41	-6.15
286	255.5	143	5.088068	11.94716	5.420561	143	4.7	6.09	-0.4	-6.15
288	255.53	144	5.102273	11.91781	5.373832	144	4.72	6.11	-0.39	-6.13
290	255.54	145	5.116477	11.92759	5.264798	145	4.74	6.13	-0.37	-6.11
292	255.5	146	5.059659	11.92759	5.202492	146	4.75	6.14	-0.36	-6.1
294	255.54	147	5.002841	11.84932	5.155763	147	4.73	6.14	-0.35	-6.09
296	255.5	148	4.946023	11.79061	5.140187	148	4.73	6.14	-0.34	-6.08
298	255.5	149	4.889205	11.74168	5.046729	149	4.73	6.14	-0.32	-6.07
300	255.54	150	4.818182	11.71233	5	150	4.75	6.16	-0.31	-6.06
302	255.49	151	4.789773	11.67319	4.953271	151	4.77	6.19	-0.29	-6.03
304	255.53	152	4.747159	11.64384	4.937695	152	4.76	6.18	-0.29	-6.03
306	255.49	153	4.704545	11.63405	4.922118	153	4.74	6.17	-0.28	-6.03
308	255.53	154	4.661932	11.58513	4.906542	154	4.74	6.18	-0.27	-6.02
310	255.53	155	4.619318	11.54599	4.844237	155	4.75	6.19	-0.25	-6.01

312	255.49	156	4.5625	11.54599	4.766355	156	4.78	6.21	-0.24	-5.99
314	255.53	157	4.576705	11.49706	4.672897	157	4.78	6.22	-0.24	-5.98
316	255.53	158	4.548295	11.42857	4.579439	158	4.76	6.21	-0.23	-5.98
318	255.49	159	4.491477	11.34051	4.53271	159	4.75	6.21	-0.22	-5.97
320	255.53	160	4.448864	11.29159	4.470405	160	4.75	6.21	-0.2	-5.96
322	255.49	161	4.377841	11.26223	4.376947	161	4.78	6.24	-0.19	-5.94
324	255.53	162	4.292614	11.22309	4.283489	162	4.78	6.25	-0.18	-5.93
326	255.49	163	4.292614	11.20352	4.158879	163	4.78	6.26	-0.16	-5.92
328	255.49	164	4.207386	11.1546	4.018692	164	4.77	6.26	-0.14	-5.91
330	255.53	165	4.079545	11.04697	3.925234	165	4.77	6.26	-0.13	-5.9
332	255.49	166	3.965909	10.99804	3.847352	166	4.77	6.27	-0.11	-5.88
334	255.52	167	3.894886	10.93933	3.722741	167	4.79	6.29	-0.11	-5.88
336	255.47	168	3.823864	10.84149	3.613707	168	4.79	6.3	-0.1	-5.86
338	255.48	169	3.710227	10.77299	3.566978	169	4.79	6.3	-0.09	-5.86
340	255.51	170	3.625	10.71429	3.47352	170	4.78	6.3	-0.07	-5.85
342	255.47	171	3.568182	10.66536	3.395639	171	4.77	6.3	-0.07	-5.85
344	255.51	172	3.525568	10.61644	3.239875	172	4.78	6.31	-0.06	-5.84
346	255.51	173	3.454545	10.5773	3.17757	173	4.81	6.34	-0.04	-5.81
348	255.48	174	3.355114	10.49902	3.161994	174	4.82	6.35	-0.03	-5.81
350	255.51	175	3.255682	10.4501	3.115265	175	4.81	6.34	-0.03	-5.81
352	255.47	176	3.184659	10.40117	3.068536	176	4.8	6.34	-0.02	-5.81
354	255.51	177	3.127841	10.31311	2.959502	177	4.79	6.34	-0.02	-5.8
356	255.51	178	3.085227	10.24462	2.834891	178	4.82	6.36	-0.01	-5.78
358	255.47	179	3.042614	10.21526	2.803738	179	4.86	6.41	0.03	-5.75
360	255.51	180	3.056818	10.17613	2.741433	180	4.89	6.45	0.07	-5.71
362	255.47	181	2.971591	10.13699	2.71028	181	4.9	6.49	0.11	-5.67
364	255.48	182	2.943182	10.13699	2.647975	182	4.92	6.51	0.14	-5.65
366	255.5	183	2.886364	10.10763	2.58567	183	4.93	6.54	0.17	-5.63
368	255.46	184	2.84375	10.09785	2.616822	184	4.97	6.59	0.2	-5.6
370	255.49	185	2.815341	10.08806	2.647975	185	5	6.62	0.22	-5.57
372	255.45	186	2.815341	10.02935	2.58567	186	5.01	6.65	0.24	-5.56
374	255.49	187	2.772727	10.02935	2.570093	187	5	6.65	0.26	-5.55
376	255.45	188	2.772727	10.02935	2.492212	188	5.01	6.66	0.28	-5.54
378	255.45	189	2.758523	10.00978	2.445483	189	5.03	6.69	0.3	-5.52
380	255.47	190	2.715909	9.980431	2.429907	190	5.06	6.72	0.31	-5.5
382	255.43	191	2.715909	9.970646	2.461059	191	5.06	6.72	0.31	-5.5
384	255.54	192	2.715909	9.980431	2.398754	192	5.05	6.71	0.32	-5.49
386	255.47	193	2.701705	9.980431	2.429907	193	5.05	6.72	0.33	-5.49
388	255.43	194	2.630682	9.970646	2.398754	194	5.07	6.75	0.35	-5.47
390	255.47	195	2.616477	9.941292	2.367601	195	5.09	6.77	0.36	-5.45
392	255.43	196	2.602273	9.941292	2.367601	196	5.1	6.78	0.36	-5.45
394	255.43	197	2.616477	9.911937	2.305296	197	5.08	6.77	0.36	-5.45
396	255.47	198	2.573864	9.892368	2.305296	198	5.07	6.76	0.36	-5.45
398	255.43	199	2.559659	9.902153	2.258567	199	5.06	6.75	0.35	-5.46
400	255.46	200	2.53125	9.911937	2.258567	200	5.08	6.77	0.35	-5.45

402	255.43	201	2.517045	9.863014	2.274143	201	5.1	6.78	0.36	-5.45
404	255.51	202	2.53125	9.863014	2.28972	202	5.09	6.78	0.36	-5.44
406	255.46	203	2.53125	9.823875	2.258567	203	5.08	6.78	0.37	-5.43
408	255.42	204	2.517045	9.863014	2.196262	204	5.07	6.78	0.38	-5.43
410	255.46	205	2.53125	9.892368	2.133956	205	5.08	6.79	0.39	-5.42
412	255.42	206	2.517045	9.833659	2.11838	206	5.1	6.81	0.39	-5.41
414	255.42	207	2.517045	9.823875	2.149533	207	5.11	6.82	0.39	-5.41
416	255.46	208	2.559659	9.823875	2.149533	208	5.1	6.82	0.4	-5.41
418	255.42	209	2.517045	9.833659	2.165109	209	5.08	6.81	0.4	-5.41
420	255.46	210	2.474432	9.784736	2.165109	210	5.09	6.82	0.41	-5.4
422	255.42	211	2.446023	9.774951	2.133956	211	5.12	6.85	0.42	-5.38
424	255.46	212	2.403409	9.843444	2.133956	212	5.12	6.85	0.42	-5.38
426	255.46	213	2.446023	9.81409	2.165109	213	5.11	6.84	0.41	-5.38
428	255.42	214	2.488636	9.833659	2.149533	214	5.07	6.81	0.4	-5.4
430	255.46	215	2.460227	9.872798	2.102804	215	5.05	6.78	0.38	-5.42
432	255.42	216	2.431818	9.843444	2.11838	216	5.05	6.77	0.36	-5.43
434	255.42	217	2.389205	9.823875	2.149533	217	5.05	6.76	0.34	-5.43
436	255.46	218	2.360795	9.833659	2.133956	218	5.03	6.74	0.32	-5.45
438	255.42	219	2.403409	9.853229	2.11838	219	4.98	6.7	0.3	-5.47
440	255.47	220	2.389205	9.833659	2.11838	220	4.96	6.68	0.29	-5.48
442	255.46	221	2.389205	9.794521	2.040498	221	4.97	6.68	0.27	-5.48
444	255.42	222	2.431818	9.784736	2.024922	222	4.97	6.68	0.26	-5.48
446	255.46	223	2.417614	9.784736	2.056075	223	4.96	6.68	0.26	-5.48
448	255.42	224	2.389205	9.784736	2.024922	224	4.94	6.66	0.25	-5.49
450	255.42	225	2.375	9.745597	2.009346	225	4.93	6.65	0.25	-5.49
452	255.46	226	2.360795	9.726027	2.024922	226	4.94	6.66	0.25	-5.48
454	255.42	227	2.332386	9.716243	2.071651	227	4.95	6.67	0.25	-5.48
456	255.46	228	2.360795	9.735812	2.024922	228	4.95	6.67	0.25	-5.47
458	255.45	229	2.332386	9.755382	2.040498	229	4.94	6.66	0.25	-5.47
460	255.41	230	2.346591	9.755382	2.040498	230	4.92	6.64	0.24	-5.49
462	255.44	231	2.360795	9.745597	2.056075	231	4.92	6.65	0.25	-5.48
464	255.4	232	2.360795	9.735812	1.993769	232	4.94	6.66	0.25	-5.47
466	255.4	233	2.332386	9.735812	2.024922	233	4.95	6.67	0.25	-5.47
468	255.44	234	2.318182	9.735812	2.040498	234	4.95	6.67	0.25	-5.46
470	255.4	235	2.303977	9.755382	2.009346	235	4.93	6.66	0.26	-5.46
472	255.44	236	2.332386	9.765166	2.024922	236	4.91	6.65	0.25	-5.47
474	255.4	237	2.289773	9.765166	2.024922	237	4.93	6.67	0.26	-5.46
476	255.4	238	2.275568	9.735812	2.009346	238	4.95	6.68	0.27	-5.45
		239	2.261364	9.716243	2.009346	239	4.95	6.68	0.26	-5.45
		240	2.303977	9.755382	2.024922	240	4.94	6.68	0.27	-5.45
		241	2.289773	9.81409	2.024922	241	4.94	6.68	0.28	-5.44
		242	2.289773	9.784736	2.009346	242	4.93	6.68	0.28	-5.44
		243	2.289773	9.774951	1.962617	243	4.95	6.7	0.29	-5.43
		244	2.289773	9.765166	1.993769	244	4.97	6.72	0.29	-5.41
		245	2.289773	9.755382	2.009346	245	4.97	6.72	0.3	-5.41

246	2.303977	9.745597	2.071651	246	4.95	6.71	0.3	-5.41
247	2.303977	9.745597	2.040498	247	4.96	6.72	0.31	-5.4
248	2.318182	9.745597	2.009346	248	4.98	6.73	0.32	-5.4
249	2.360795	9.735812	2.009346	249	4.99	6.74	0.32	-5.39
250	2.375	9.716243	2.009346	250	4.99	6.74	0.32	-5.39
251	2.346591	9.755382	2.040498	251	4.97	6.74	0.32	-5.39
252	2.289773	9.735812	2.024922	252	4.96	6.73	0.33	-5.39
253	2.261364	9.726027	1.993769	253	4.97	6.74	0.33	-5.38
254	2.261364	9.735812	2.024922	254	4.99	6.76	0.33	-5.37
255	2.289773	9.716243	2.024922	255	5	6.77	0.34	-5.36
256	2.303977	9.696673	1.993769	256	4.99	6.76	0.34	-5.36
257	2.318182	9.726027	2.009346	257	4.97	6.75	0.34	-5.37
258	2.289773	9.726027	1.962617	258	4.97	6.75	0.34	-5.37
259	2.303977	9.755382	1.962617	259	4.99	6.77	0.34	-5.36
260	2.289773	9.745597	2.040498	260	5.02	6.79	0.35	-5.34
261	2.303977	9.696673	1.993769	261	5.02	6.79	0.36	-5.34
262	2.332386	9.726027	1.978193	262	5	6.78	0.37	-5.34
263	2.332386	9.726027	1.931464	263	4.99	6.78	0.37	-5.34
264	2.289773	9.735812	1.978193	264	5.02	6.8	0.37	-5.33
265	2.261364	9.755382	2.024922	265	5.02	6.81	0.37	-5.32
266	2.247159	9.765166	2.024922	266	5.02	6.81	0.38	-5.32
267	2.289773	9.81409	1.978193	267	5	6.8	0.38	-5.32
268	2.332386	9.774951	1.962617	268	5	6.8	0.39	-5.32
269	2.318182	9.774951	1.962617	269	5.01	6.81	0.38	-5.32
270	2.318182	9.774951	1.978193	270	5.03	6.82	0.39	-5.31
271	2.346591	9.755382	1.978193	271	5.04	6.83	0.4	-5.3
272	2.332386	9.774951	2.040498	272	5.02	6.82	0.4	-5.3
273	2.303977	9.784736	2.040498	273	5.02	6.82	0.41	-5.3
274	2.303977	9.765166	2.056075	274	5.03	6.83	0.41	-5.3
275	2.303977	9.774951	2.024922	275	5.05	6.84	0.41	-5.29
276	2.289773	9.774951	2.009346	276	5.07	6.86	0.42	-5.28
277	2.346591	9.794521	1.993769	277	5.04	6.84	0.42	-5.29
278	2.360795	9.843444	2.024922	278	5.03	6.84	0.43	-5.28
279	2.375	9.774951	2.024922	279	5.05	6.86	0.43	-5.28
280	2.332386	9.774951	2.009346	280	5.07	6.87	0.44	-5.27
281	2.289773	9.765166	2.024922	281	5.08	6.88	0.44	-5.26
282	2.289773	9.794521	1.993769	282	5.07	6.87	0.44	-5.26
283	2.289773	9.81409	2.009346	283	5.05	6.86	0.44	-5.26
284	2.289773	9.765166	1.993769	284	5.07	6.88	0.45	-5.25
285	2.303977	9.794521	1.978193	285	5.1	6.9	0.46	-5.24
286	2.346591	9.794521	2.009346	286	5.1	6.91	0.46	-5.24
287	2.332386	9.784736	1.94704	287	5.08	6.89	0.47	-5.24
288	2.346591	9.794521	1.94704	288	5.07	6.89	0.47	-5.24
289	2.346591	9.794521	1.993769	289	5.09	6.91	0.48	-5.23
290	2.332386	9.794521	2.009346	290	5.11	6.93	0.48	-5.22

291	2.318182	9.823875	2.040498	291	5.11	6.92	0.48	-5.22
292	2.303977	9.774951	2.056075	292	5.1	6.92	0.49	-5.22
293	2.303977	9.755382	2.024922	293	5.08	6.9	0.48	-5.23
294	2.332386	9.804305	2.024922	294	5.1	6.92	0.48	-5.22
295	2.303977	9.81409	2.024922	295	5.12	6.94	0.49	-5.21
296	2.332386	9.853229	2.024922	296	5.12	6.94	0.49	-5.21
297	2.346591	9.81409	2.040498	297	5.1	6.93	0.5	-5.21
298	2.375	9.784736	2.056075	298	5.09	6.93	0.5	-5.21
299	2.346591	9.755382	2.040498	299	5.11	6.94	0.5	-5.2
300	2.332386	9.784736	2.056075	300	5.13	6.95	0.51	-5.19
301	2.346591	9.774951	2.071651	301	5.13	6.96	0.5	-5.2
302	2.375	9.823875	2.024922	302	5.11	6.95	0.51	-5.2
303	2.360795	9.833659	2.009346	303	5.1	6.94	0.51	-5.2
304	2.360795	9.794521	2.024922	304	5.13	6.96	0.51	-5.19
305	2.346591	9.804305	2.024922	305	5.14	6.97	0.51	-5.18
306	2.346591	9.823875	2.040498	306	5.13	6.97	0.51	-5.18
307	2.332386	9.774951	2.024922	307	5.12	6.96	0.52	-5.18
308	2.360795	9.81409	2.024922	308	5.12	6.97	0.53	-5.17
309	2.346591	9.81409	2.024922	309	5.15	6.98	0.53	-5.17
310	2.332386	9.823875	2.040498	310	5.16	7	0.54	-5.16
311	2.332386	9.81409	2.024922	311	5.16	7	0.55	-5.15
312	2.318182	9.81409	2.009346	312	5.13	6.98	0.55	-5.16
313	2.303977	9.81409	2.024922	313	5.13	6.98	0.55	-5.16
314	2.303977	9.843444	2.056075	314	5.16	7	0.56	-5.15
315	2.247159	9.81409	2.071651	315	5.16	7.01	0.55	-5.14
316	2.247159	9.833659	2.056075	316	5.17	7.01	0.56	-5.14
317	2.289773	9.794521	2.087227	317	5.16	7.01	0.56	-5.15
318	2.360795	9.81409	2.133956	318	5.14	7	0.56	-5.15
319	2.403409	9.833659	2.071651	319	5.16	7.02	0.57	-5.14
320	2.403409	9.863014	2.009346	320	5.18	7.03	0.58	-5.13
321	2.346591	9.81409	2.024922	321	5.19	7.04	0.58	-5.12
322	2.346591	9.81409	2.087227	322	5.17	7.03	0.57	-5.12
323	2.360795	9.794521	2.087227	323	5.16	7.02	0.57	-5.13
324	2.375	9.843444	2.071651	324	5.17	7.03	0.57	-5.13
325	2.375	9.804305	2.040498	325	5.18	7.03	0.57	-5.13
326	2.360795	9.863014	2.040498	326	5.2	7.05	0.58	-5.12
327	2.389205	9.823875	2.040498	327	5.18	7.04	0.58	-5.12
328	2.375	9.853229	2.071651	328	5.17	7.04	0.58	-5.12
329	2.360795	9.892368	2.071651	329	5.19	7.05	0.57	-5.12
330	2.346591	9.853229	2.071651	330	5.2	7.06	0.58	-5.11
331	2.360795	9.902153	2.056075	331	5.21	7.07	0.59	-5.1
332	2.375	9.911937	2.087227	332	5.19	7.06	0.58	-5.11
333	2.375	9.882583	2.102804	333	5.18	7.06	0.57	-5.1
334	2.389205	9.892368	2.11838	334	5.21	7.08	0.57	-5.09
335	2.403409	9.863014	2.102804	335	5.21	7.08	0.57	-5.09

336	2.389205	9.911937	2.087227	336	5.22	7.09	0.57	-5.09
337	2.389205	9.960861	2.087227	337	5.21	7.08	0.57	-5.09
338	2.375	9.941292	2.133956	338	5.2	7.07	0.58	-5.09
339	2.389205	9.872798	2.149533	339	5.21	7.08	0.58	-5.08
340	2.389205	9.892368	2.11838	340	5.24	7.1	0.58	-5.07
341	2.417614	9.941292	2.133956	341	5.24	7.1	0.56	-5.08
342	2.431818	9.980431	2.149533	342	5.22	7.09	0.57	-5.08
343	2.431818	9.931507	2.165109	343	5.22	7.09	0.58	-5.07
344	2.431818	9.951076	2.180685	344	5.23	7.1	0.58	-5.07
345	2.403409	9.951076	2.165109	345	5.24	7.11	0.57	-5.06
346	2.389205	9.970646	2.211838	346	5.25	7.12	0.56	-5.06
347	2.431818	9.931507	2.196262	347	5.23	7.1	0.54	-5.07
348	2.460227	9.921722	2.165109	348	5.22	7.1	0.51	-5.07
349	2.403409	9.911937	2.180685	349	5.24	7.12	0.52	-5.06
350	2.403409	9.941292	2.196262	350	5.25	7.13	0.51	-5.05
351	2.417614	9.951076	2.149533	351	5.27	7.14	0.52	-5.04
352	2.403409	9.911937	2.196262	352	5.25	7.12	0.54	-5.05
353	2.360795	9.931507	2.165109	353	5.24	7.12	0.54	-5.05
354	2.375	10	2.133956	354	5.25	7.13	0.55	-5.05
355	2.446023	9.980431	2.133956	355	5.28	7.15	0.55	-5.03
356	2.431818	9.980431	2.102804	356	5.28	7.16	0.55	-5.04
357	2.403409	9.990215	2.133956	357	5.26	7.14	0.56	-5.04
358	2.431818	9.990215	2.149533	358	5.26	7.14	0.58	-5.04
359	2.431818	10	2.211838	359	5.25	7.14	0.58	-5.04
360	2.446023	10	2.211838	360	5.29	7.17	0.58	-5.02
361	2.417614	9.970646	2.227414	361	5.29	7.17	0.58	-5.02
362	2.403409	9.960861	2.242991	362	5.29	7.17	0.59	-5.02
363	2.417614	9.970646	2.211838	363	5.26	7.15	0.59	-5.03
364	2.431818	10.01957	2.180685	364	5.26	7.15	0.57	-5.04
365	2.431818	10.02935	2.196262	365	5.27	7.16	0.55	-5.03
366	2.431818	10	2.180685	366	5.3	7.18	0.56	-5.02
367	2.417614	10	2.149533	367	5.29	7.18	0.57	-5.02
368	2.431818	9.990215	2.165109	368	5.27	7.17	0.57	-5.02
369	2.431818	10.01957	2.165109	369	5.27	7.17	0.53	-5.02
370	2.460227	10.01957	2.180685	370	5.3	7.19	0.54	-5.01
371	2.474432	9.980431	2.165109	371	5.31	7.2	0.58	-5
372	2.460227	10.01957	2.180685	372	5.3	7.19	0.58	-5.01
373	2.460227	10.00978	2.196262	373	5.28	7.17	0.58	-5.02
374	2.431818	10.00978	2.196262	374	5.29	7.18	0.47	-5.01
375	2.431818	10.01957	2.196262	375	5.32	7.2	0.52	-5
376	2.417614	10.02935	2.242991	376	5.32	7.21	0.57	-5
377	2.417614	10.03914	2.180685	377	5.31	7.2	0.58	-5
378	2.474432	10.02935	2.165109	378	5.3	7.2	0.55	-5
379	2.460227	10.07828	2.211838	379	5.31	7.2	0.55	-5
380	2.460227	10.10763	2.258567	380	5.33	7.22	0.55	-5

381	2.474432	10.08806	2.305296	381	5.34	7.22	0.53	-4.99
382	2.488636	10.14677	2.352025	382	5.34	7.23	0.55	-4.98
383	2.517045	10.1272	2.320872	383	5.32	7.22	0.51	-4.99
384	2.502841	10.09785	2.28972	384	5.33	7.22	0.51	-4.98
385	2.474432	10.04892	2.274143	385	5.34	7.23	0.53	-4.98
386	2.474432	10.04892	2.336449	386	5.35	7.24	0.55	-4.98
387	2.488636	10.07828	2.336449	387	5.36	7.24	0.55	-4.97
388	2.502841	10.07828	2.320872	388	5.34	7.23	0.56	-4.98
389	2.502841	10.10763	2.336449	389	5.32	7.22	0.56	-4.98
390	2.517045	10.09785	2.258567	390	5.34	7.24	0.57	-4.97
391	2.502841	10.06849	2.28972	391	5.36	7.25	0.51	-4.97
392	2.488636	10.08806	2.305296	392	5.37	7.25	0.54	-4.97
393	2.460227	10.10763	2.242991	393	5.34	7.23	0.5	-4.97
394	2.460227	10.08806	2.274143	394	5.33	7.23	0.51	-4.98
395	2.446023	10.09785	2.28972	395	5.34	7.24	0.51	-4.98
396	2.460227	10.04892	2.28972	396	5.36	7.25	0.53	-4.97
397	2.474432	10.05871	2.320872	397	5.37	7.26	0.54	-4.96
398	2.474432	10.09785	2.320872	398	5.34	7.24	0.54	-4.98
399	2.460227	10.09785	2.28972	399	5.33	7.24	0.56	-4.98
400	2.488636	10.09785	2.242991	400	5.36	7.26	0.56	-4.97
401	2.488636	10.07828	2.227414	401	5.38	7.28	0.58	-4.95
402	2.474432	10.05871	2.258567	402	5.37	7.27	0.6	-4.96
403	2.488636	10.07828	2.274143	403	5.36	7.26	0.62	-4.96
404	2.502841	10.07828	2.28972	404	5.35	7.26	0.6	-4.96
405	2.53125	10.04892	2.227414	405	5.38	7.29	0.57	-4.94
406	2.502841	10.00978	2.180685	406	5.38	7.28	0.62	-4.95
407	2.502841	10.01957	2.242991	407	5.39	7.29	0.64	-4.94
408	2.517045	10.02935	2.320872	408	5.36	7.27	0.64	-4.95
409	2.502841	10.07828	2.274143	409	5.35	7.27	0.64	-4.95
410	2.502841	10.09785	2.274143	410	5.39	7.29	0.66	-4.94
411	2.502841	10.08806	2.274143	411	5.4	7.3	0.67	-4.93
412	2.488636	10.06849	2.28972	412	5.4	7.31	0.68	-4.93
413	2.488636	10.07828	2.274143	413	5.38	7.29	0.61	-4.93
414	2.488636	10.03914	2.242991	414	5.37	7.29	0.49	-4.94
415	2.474432	10.05871	2.242991	415	5.39	7.31	0.59	-4.93
416	2.502841	10.08806	2.258567	416	5.41	7.32	0.64	-4.92
417	2.488636	10.07828	2.227414	417	5.42	7.33	0.67	-4.91
418	2.517045	10.08806	2.242991	418	5.39	7.31	0.69	-4.92
419	2.502841	10.05871	2.258567	419	5.38	7.3	0.63	-4.93
420	2.502841	10.05871	2.242991	420	5.41	7.32	0.52	-4.91
421	2.502841	10.06849	2.274143	421	5.41	7.32	0.57	-4.91
422	2.517045	10.10763	2.305296	422	5.41	7.33	0.67	-4.91
423	2.53125	10.16634	2.320872	423	5.39	7.31	0.69	-4.92
424	2.588068	10.17613	2.336449	424	5.38	7.3	0.68	-4.93
425	2.559659	10.15656	2.398754	425	5.41	7.32	0.65	-4.92

426	2.53125	10.13699	2.383178	426	5.42	7.33	0.62	-4.91
427	2.559659	10.15656	2.383178	427	5.42	7.33	0.64	-4.91
428	2.517045	10.13699	2.383178	428	5.41	7.33	0.66	-4.91
429	2.517045	10.11742	2.383178	429	5.41	7.33	0.67	-4.91
430	2.517045	10.14677	2.398754	430	5.41	7.33	0.68	-4.91
431	2.545455	10.09785	2.367601	431	5.44	7.35	0.69	-4.9
432	2.545455	10.06849	2.320872	432	5.45	7.36	0.71	-4.89
433	2.53125	10.06849	2.305296	433	5.43	7.34	0.71	-4.9
434	2.502841	10.10763	2.274143	434	5.42	7.34	0.71	-4.9
435	2.488636	10.11742	2.320872	435	5.41	7.34	0.7	-4.9
436	2.517045	10.09785	2.320872	436	5.43	7.35	0.68	-4.9
437	2.502841	10.11742	2.305296	437	5.44	7.36	0.67	-4.89
438	2.502841	10.09785	2.320872	438	5.44	7.35	0.67	-4.89
439	2.545455	10.09785	2.320872	439	5.41	7.34	0.64	-4.9
440	2.559659	10.05871	2.28972	440	5.41	7.34	0.65	-4.9
441	2.517045	10.01957	2.274143	441	5.43	7.36	0.65	-4.89
442	2.488636	10.01957	2.274143	442	5.45	7.37	0.69	-4.89
443	2.502841	10.06849	2.274143	443	5.45	7.37	0.71	-4.88
444	2.517045	10.11742	2.28972	444	5.43	7.36	0.71	-4.89
445	2.517045	10.10763	2.305296	445	5.42	7.35	0.71	-4.89
446	2.474432	10.10763	2.258567	446	5.45	7.38	0.66	-4.87
447	2.474432	10.09785	2.305296	447	5.45	7.38	0.71	-4.87
448	2.517045	10.06849	2.336449	448	5.47	7.39	0.73	-4.87
449	2.517045	10.11742	2.305296	449	5.44	7.37	0.74	-4.87
450	2.517045	10.09785	2.28972	450	5.43	7.36	0.74	-4.88
451	2.488636	10.11742	2.383178	451	5.44	7.38	0.74	-4.87
452	2.502841	10.16634	2.398754	452	5.46	7.39	0.75	-4.87
453	2.53125	10.11742	2.352025	453	5.46	7.39	0.72	-4.87
454	2.517045	10.07828	2.336449	454	5.45	7.38	0.69	-4.87
455	2.517045	10.05871	2.367601	455	5.44	7.38	0.71	-4.87
456	2.53125	10.07828	2.336449	456	5.45	7.39	0.73	-4.87
457	2.517045	10.09785	2.320872	457	5.46	7.4	0.71	-4.87
458	2.517045	10.09785	2.320872	458	5.47	7.41	0.69	-4.86
459	2.545455	10.11742	2.320872	459	5.47	7.4	0.66	-4.87
460	2.53125	10.07828	2.320872	460	5.46	7.39	0.68	-4.87
461	2.545455	10.09785	2.320872	461	5.45	7.39	0.68	-4.87
462	2.545455	10.10763	2.305296	462	5.47	7.41	0.69	-4.86
463	2.53125	10.09785	2.274143	463	5.49	7.42	0.71	-4.85
464	2.545455	10.04892	2.383178	464	5.49	7.42	0.72	-4.85
465	2.517045	10.08806	2.398754	465	5.47	7.41	0.74	-4.86
466	2.573864	10.13699	2.336449	466	5.46	7.4	0.74	-4.86
467	2.559659	10.13699	2.352025	467	5.47	7.41	0.7	-4.86
468	2.53125	10.13699	2.305296	468	5.48	7.42	0.68	-4.85
469	2.53125	10.14677	2.305296	469	5.49	7.43	0.68	-4.84
470	2.559659	10.13699	2.336449	470	5.48	7.42	0.68	-4.85

471	2.573864	10.21526	2.352025	471	5.46	7.41	0.68	-4.85
472	2.588068	10.21526	2.367601	472	5.47	7.41	0.69	-4.85
473	2.616477	10.17613	2.429907	473	5.49	7.43	0.7	-4.84
474	2.588068	10.20548	2.461059	474	5.5	7.44	0.68	-4.83
475	2.602273	10.19569	2.429907	475	5.48	7.43	0.67	-4.84
476	2.573864	10.22505	2.429907	476	5.47	7.42	0.67	-4.85

HigherRH_exp_6

Experiment type: Higher humidity experiment. This experiment consisted of four ice cubes in the petridish. The two humidity buffers were NaCl which have a RH of 75% at 0 degrees Celsius.

One of the buffers is raised 15.25 cm off the chamber floor. The sample was raised 13.3 cm off the chamber floor. Chiller was set to - 15°C. Temperature around the sample was controlled by the chiller. The pressure ranged from 10-11.3 mbar. N₂ mixed with 500 ppm H₂O gas was fed into the chamber.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= atmosphere 3= humidity buffer 4= sample

Mass		RH				T				
Min.	Mass	Min.	Ch02	Ch03	Ch04	Min.	Ch01	Ch02	Ch03	Ch04
0	53.02	0	20.35795	20.66536	23.53583	0	16.38	5.36	0.22	-8.43
1	53.25	1	25.08807	24.68689	22.42991	1	5.91	4.45	0.36	-8.27
3	53.03	2	30.00284	25.18591	20.38941	2	2.58	2.52	0.09	-6.22
5	52.94	3	29.49148	22.37769	18.56698	3	-0.52	-1.23	-0.47	-9.97
7	52.99	4	26.90625	20.88063	16.4486	4	0.95	0.07	-0.61	-10.21
9	53	5	23.24148	19.71624	13.97196	5	1.7	0.64	-0.61	-9.91
11	53.02	6	19.71875	18.61057	12.18069	6	1.9	0.67	-0.58	-9.65
13	52.94	7	17.33239	17.65166	11.55763	7	2.78	1.08	-0.53	-9.16
15	52.88	8	16.25284	17.10372	11.7757	8	3.81	1.39	-0.45	-8.58
17	52.83	9	15.92614	16.93738	12.21184	9	4.46	1.59	-0.36	-8.14
19	52.81	10	15.62784	16.8591	12.38318	10	4.67	1.65	-0.29	-7.87
21	52.77	11	15.32955	16.77104	12.3676	11	4.58	1.64	-0.23	-7.7
23	52.7	12	15.07386	16.62427	12.3053	12	4.61	1.67	-0.18	-7.58
25	52.66	13	14.84659	16.54599	12.21184	13	4.64	1.7	-0.14	-7.48
27	52.64	14	14.61932	16.43836	12.24299	14	4.67	1.72	-0.09	-7.39
29	52.55	15	14.39205	16.33072	12.22741	15	4.68	1.74	-0.06	-7.32

31	52.51	16	14.2358	16.29159	12.25857	16	4.69	1.74	-0.02	-7.25
33	52.5	17	14.10795	16.25245	12.27414	17	4.69	1.75	0	-7.2
35	52.45	18	14.00852	16.18395	12.32087	18	4.7	1.75	0.02	-7.15
37	52.38	19	13.9233	16.16438	12.33645	19	4.69	1.73	0.02	-7.11
39	52.36	20	13.78125	16.13503	12.3676	20	4.68	1.71	0.02	-7.08
41	52.32	21	13.71023	16.13503	12.42991	21	4.68	1.71	0.02	-7.05
43	52.24	22	13.68182	16.18395	12.50779	22	4.67	1.68	0	-7.04
45	52.2	23	13.625	16.14481	12.52336	23	4.65	1.66	-0.01	-7.02
47	52.18	24	13.6108	16.11546	12.50779	24	4.64	1.63	0	-6.99
49	52.14	25	13.52557	16.06654	12.53894	25	4.61	1.56	-0.02	-6.99
51	52.06	26	13.46875	16.04697	12.52336	26	4.62	1.56	0	-6.95
53	52.07	27	13.39773	16.06654	12.53894	27	4.65	1.6	0.03	-6.9
55	52	28	13.36932	16.08611	12.57009	28	4.68	1.61	0.06	-6.86
57	51.92	29	13.34091	16.06654	12.58567	29	4.69	1.59	0.08	-6.81
59	51.88	30	13.41193	16.04697	12.57009	30	4.72	1.62	0.12	-6.76
61	51.86	31	13.35511	16.0274	12.61682	31	4.73	1.62	0.13	-6.73
63	51.78	32	13.35511	15.99804	12.67913	32	4.73	1.62	0.15	-6.7
65	51.74	33	13.2983	15.98826	12.66355	33	4.73	1.62	0.16	-6.68
67	51.71	34	13.22727	15.99804	12.71028	34	4.74	1.61	0.17	-6.66
69	51.67	35	13.18466	15.98826	12.67913	35	4.77	1.63	0.18	-6.63
71	51.59	36	13.17045	15.97847	12.67913	36	4.77	1.64	0.19	-6.61
73	51.59	37	13.17045	15.99804	12.74143	37	4.77	1.63	0.19	-6.59
75	51.53	38	13.14205	15.99804	12.75701	38	4.75	1.61	0.19	-6.58
77	51.45	39	13.11364	15.98826	12.77259	39	4.74	1.6	0.18	-6.57
79	51.4	40	13.07102	15.99804	12.80374	40	4.73	1.57	0.17	-6.57
81	51.39	41	13.11364	15.99804	12.80374	41	4.71	1.54	0.14	-6.58
83	51.34	42	13.08523	15.98826	12.85047	42	4.7	1.52	0.12	-6.58
85	51.26	43	13.05682	15.99804	12.83489	43	4.69	1.5	0.09	-6.58
87	51.22	44	13.09943	15.93933	12.86604	44	4.67	1.47	0.06	-6.58
89	51.19	45	13.12784	15.91977	12.91277	45	4.63	1.43	0.04	-6.6
91	51.15	46	13.11364	15.9002	12.86604	46	4.61	1.41	0.02	-6.6
93	51.07	47	13.02841	15.94912	12.83489	47	4.6	1.4	0.02	-6.58
95	51.03	48	13.0142	15.93933	12.85047	48	4.6	1.38	0.01	-6.58
97	51.01	49	13.0142	15.90998	12.83489	49	4.61	1.38	0	-6.57
99	50.96	50	12.95739	15.90998	12.83489	50	4.6	1.36	0	-6.56
101	50.88	51	13.0142	15.90998	12.83489	51	4.6	1.34	-0.01	-6.55
103	50.87	52	13.02841	15.89041	12.80374	52	4.59	1.33	-0.01	-6.54
105	50.82	53	12.97159	15.89041	12.83489	53	4.58	1.31	0	-6.53
107	50.74	54	12.92898	15.85127	12.78816	54	4.57	1.29	0	-6.52
109	50.7	55	12.94318	15.84149	12.81931	55	4.59	1.29	-0.01	-6.5
111	50.68	56	12.97159	15.85127	12.81931	56	4.61	1.29	0	-6.48
113	50.6	57	12.91477	15.87084	12.81931	57	4.61	1.28	0	-6.48
115	50.56	58	12.92898	15.89041	12.83489	58	4.6	1.26	0	-6.46
117	50.54	59	12.95739	15.87084	12.80374	59	4.59	1.24	0	-6.46
119	50.45	60	12.90057	15.89041	12.80374	60	4.59	1.23	0	-6.45

121	50.42	61	12.91477	15.88063	12.80374	61	4.59	1.22	0	-6.44
		62	12.87216	15.88063	12.83489	62	4.61	1.24	0	-6.43
		63	12.95739	15.82192	12.86604	63	4.62	1.23	0	-6.41
		64	12.94318	15.8317	12.81931	64	4.62	1.22	0	-6.4
		65	12.91477	15.8317	12.80374	65	4.61	1.21	0	-6.39
		66	12.88636	15.79256	12.77259	66	4.61	1.18	0	-6.39
		67	12.85795	15.77299	12.75701	67	4.6	1.12	-0.01	-6.39
		68	12.80114	15.79256	12.80374	68	4.62	1.13	0	-6.37
		69	12.75852	15.78278	12.83489	69	4.62	1.13	0	-6.36
		70	12.82955	15.81213	12.83489	70	4.63	1.13	0	-6.35
		71	12.88636	15.79256	12.80374	71	4.63	1.14	0.01	-6.34
		72	12.87216	15.77299	12.77259	72	4.62	1.13	0.01	-6.33
		73	12.81534	15.86106	12.72586	73	4.62	1.13	0.02	-6.33
		74	12.77273	15.84149	12.71028	74	4.61	1.12	0.01	-6.32
		75	12.77273	15.79256	12.6947	75	4.63	1.13	0.02	-6.31
		76	12.78693	15.77299	12.75701	76	4.65	1.14	0.02	-6.3
		77	12.77273	15.75342	12.75701	77	4.66	1.15	0.03	-6.28
		78	12.73011	15.77299	12.71028	78	4.66	1.15	0.02	-6.28
		79	12.73011	15.78278	12.71028	79	4.65	1.15	0.02	-6.27
		80	12.74432	15.82192	12.74143	80	4.64	1.14	0.02	-6.28
		81	12.74432	15.77299	12.72586	81	4.64	1.15	0.02	-6.27
		82	12.73011	15.67515	12.71028	82	4.64	1.15	0.03	-6.26
		83	12.71591	15.7045	12.71028	83	4.67	1.17	0.03	-6.24
		84	12.7017	15.75342	12.6947	84	4.69	1.19	0.04	-6.22
		85	12.71591	15.71429	12.67913	85	4.68	1.19	0.04	-6.22
		86	12.71591	15.69472	12.6324	86	4.69	1.2	0.05	-6.2
		87	12.6875	15.69472	12.58567	87	4.68	1.19	0.05	-6.2
		88	12.64489	15.68493	12.57009	88	4.67	1.18	0.04	-6.21
		89	12.64489	15.65558	12.61682	89	4.68	1.19	0.05	-6.19
		90	12.6875	15.65558	12.61682	90	4.69	1.2	0.06	-6.18
		91	12.71591	15.7045	12.55452	91	4.71	1.21	0.06	-6.17
		92	12.64489	15.72407	12.53894	92	4.71	1.22	0.05	-6.17
		93	12.64489	15.75342	12.47664	93	4.71	1.22	0.05	-6.16
		94	12.6733	15.69472	12.52336	94	4.7	1.22	0.06	-6.16
		95	12.64489	15.65558	12.53894	95	4.7	1.22	0.06	-6.15
		96	12.63068	15.69472	12.50779	96	4.7	1.22	0.06	-6.14
		97	12.55966	15.7045	12.49221	97	4.71	1.23	0.06	-6.13
		98	12.53125	15.65558	12.50779	98	4.72	1.24	0.06	-6.12
		99	12.50284	15.62622	12.49221	99	4.73	1.24	0.06	-6.12
		100	12.54545	15.62622	12.47664	100	4.75	1.26	0.07	-6.1
		101	12.55966	15.64579	12.44548	101	4.74	1.25	0.06	-6.1
		102	12.53125	15.66536	12.44548	102	4.73	1.25	0.07	-6.1
		103	12.47443	15.62622	12.46106	103	4.73	1.26	0.08	-6.09
		104	12.47443	15.59687	12.42991	104	4.73	1.26	0.09	-6.08
		105	12.47443	15.5773	12.39875	105	4.75	1.28	0.09	-6.07

106	12.51705	15.59687	12.35202	106	4.77	1.29	0.1	-6.06
107	12.53125	15.60665	12.33645	107	4.78	1.3	0.1	-6.05
108	12.54545	15.5773	12.38318	108	4.77	1.3	0.11	-6.05
109	12.47443	15.55773	12.42991	109	4.76	1.3	0.11	-6.05
110	12.47443	15.54795	12.39875	110	4.76	1.3	0.12	-6.04
111	12.51705	15.54795	12.35202	111	4.76	1.3	0.12	-6.04
112	12.44602	15.5773	12.35202	112	4.77	1.3	0.12	-6.04
113	12.47443	15.59687	12.32087	113	4.79	1.32	0.13	-6.02
114	12.50284	15.59687	12.33645	114	4.79	1.32	0.13	-6.02
115	12.50284	15.60665	12.35202	115	4.78	1.33	0.14	-6.01
116	12.43182	15.60665	12.35202	116	4.78	1.32	0.14	-6.01
117	12.3892	15.58708	12.3053	117	4.78	1.33	0.15	-6
118	12.44602	15.53816	12.27414	118	4.79	1.33	0.15	-6
119	12.44602	15.55773	12.25857	119	4.81	1.35	0.15	-5.98
120	12.48864	15.60665	12.27414	120	4.81	1.36	0.15	-5.98
121	12.47443	15.58708	12.28972	121	4.81	1.36	0.15	-5.98

HigherRH_exp_7

Experiment type: Higher humidity experiment. This experiment consisted of four ice cubes in the petridish. The two humidity buffers were NaCl which have a RH of 75% at 0 degrees Celsius.

One of the buffers is raised 15.25 cm off the chamber floor. The sample was raised 13.3 cm off the chamber floor. Chiller was set to - 15°C. Temperature around the sample was controlled by the chiller. The pressure ranged from 10-11.3 mbar.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= atmosphere 3= humidity buffer 4= sample

Mass		RH				T				
Min.	Mass	Min.	Ch02	Ch03	Ch04	Min.	Ch01	Ch02	Ch03	Ch04
0	53.33	0	25.89773	34.13894	36.47975	0	6.06	6.47	1.55	-7.35
2	56.63	1	28.0142	34.85323	33.97196	1	2.48	2.82	1.06	-7.62
4	56.65	2	30.30114	32.818	30.96573	2	0.66	0.7	0.49	-9.21
6	56.86	3	30.13068	30.31311	29.09657	3	2.07	1.87	0.34	-9.37
8	57.13	4	29.47727	29.09002	26.60436	4	2.25	1.82	0.26	-9.21
10	57	5	28.41193	27.82779	23.31776	5	2.17	1.52	0.2	-9.07
12	56.94	6	26.83523	26.1546	20.06231	6	2.53	1.68	0.16	-8.88
14	56.84	7	24.98864	24.28571	18.13084	7	3.34	2.12	0.15	-8.5

16	56.78	8	23.17045	22.47554	17.28972	8	3.95	2.32	0.16	-8.08
18	56.76	9	22.0483	21.25245	16.97819	9	4.34	2.44	0.17	-7.75
20	56.7	10	21.56534	20.71429	17.11838	10	4.49	2.46	0.18	-7.58
22	56.61	11	21.05398	20.39139	16.93146	11	4.52	2.44	0.17	-7.48
24	56.56	12	20.4858	20.05871	16.69782	12	4.54	2.43	0.18	-7.4
26	56.5	13	20.01705	19.78474	16.46417	13	4.54	2.42	0.18	-7.34
28	56.46	14	19.49148	19.62818	16.23053	14	4.54	2.41	0.18	-7.3
30	56.39	15	18.96591	19.47162	16.04361	15	4.53	2.39	0.18	-7.26
32	56.29	16	18.625	19.27593	15.90343	16	4.53	2.38	0.18	-7.22
34	56.24	17	18.39773	19.13894	15.82555	17	4.52	2.37	0.18	-7.19
36	56.21	18	18.14205	19.0411	15.77882	18	4.52	2.36	0.18	-7.16
38	56.12	19	17.94318	18.96282	15.76324	19	4.51	2.36	0.18	-7.13
40	56.07	20	17.78693	18.27789	15.74766	20	4.5	2.35	0.19	-7.11
42	55.94	21	17.57386	18.47358	15.80997	21	4.51	2.35	0.19	-7.08
44	55.94	22	17.40341	18.74755	15.74766	22	4.51	2.35	0.19	-7.06
46	55.9	23	17.28977	18.7182	15.71651	23	4.5	2.34	0.19	-7.04
48	55.81	24	17.16193	18.74755	15.73209	24	4.5	2.33	0.19	-7.02
50	55.72	25	17.01989	18.74755	15.71651	25	4.5	2.33	0.2	-7.01
52	55.77	26	16.96307	18.65949	15.71651	26	4.5	2.33	0.2	-6.99
54	55.62	27	16.99148	18.62035	15.76324	27	4.5	2.33	0.2	-6.97
56	55.62	28	16.93466	18.591	15.77882	28	4.49	2.32	0.21	-6.95
58	55.53	29	16.83523	18.60078	15.84112	29	4.5	2.32	0.21	-6.94
60	55.55	30	16.70739	18.57143	15.87227	30	4.49	2.32	0.21	-6.93
62	55.49	31	16.69318	18.57143	15.84112	31	4.48	2.31	0.2	-6.92
64	55.37	32	16.72159	18.27789	15.82555	32	4.48	2.31	0.2	-6.91
66	55.35	33	16.66477	18.12133	15.80997	33	4.48	2.31	0.2	-6.89
68	55.32	34	16.59375	18.40509	15.90343	34	4.48	2.31	0.21	-6.88
70	55.29	35	16.57955	18.49315	15.90343	35	4.49	2.32	0.22	-6.87
72	55.23	36	16.53693	18.5225	15.919	36	4.48	2.32	0.22	-6.86
74	55.19	37	16.48011	18.51272	15.93458	37	4.48	2.32	0.22	-6.85
76	55.06	38	16.48011	18.51272	15.99688	38	4.48	2.33	0.22	-6.85
78	55.03	39	16.48011	18.4638	15.98131	39	4.48	2.33	0.22	-6.83
80	55.05	40	16.4517	18.42466	16.01246	40	4.47	2.33	0.22	-6.83
82	54.99	41	16.4233	18.48337	16.01246	41	4.48	2.34	0.23	-6.82
84	54.94	42	16.40909	18.49315	16.01246	42	4.48	2.34	0.23	-6.81
86	54.85	43	16.39489	18.49315	15.98131	43	4.48	2.34	0.23	-6.8
88	54.78	44	16.33807	18.45401	16.01246	44	4.48	2.34	0.23	-6.79
90	54.77	45	16.36648	18.44423	16.07477	45	4.48	2.34	0.23	-6.79
92	54.71	46	16.38068	18.41487	16.05919	46	4.47	2.34	0.23	-6.78
94	54.69	47	16.32386	18.3953	16.04361	47	4.48	2.35	0.23	-6.77
96	54.59	48	16.32386	18.38552	16.04361	48	4.48	2.35	0.23	-6.77
98	54.51	49	16.28125	18.37573	16.07477	49	4.47	2.35	0.23	-6.76
100	54.43	50	16.33807	18.41487	16.09034	50	4.48	2.36	0.23	-6.76
102	54.43	51	16.32386	18.41487	16.10592	51	4.49	2.38	0.24	-6.74
104	54.37	52	16.25284	19.03131	16.1215	52	4.48	2.38	0.24	-6.73

106	54.31	53	16.18182	19.25636	16.04361	53	4.48	2.39	0.24	-6.73
108	54.36	54	16.15341	18.54207	16.05919	54	4.48	2.39	0.23	-6.73
110	54.24	55	16.16761	18.43444	16.10592	55	4.48	2.39	0.23	-6.72
112	54.13	56	16.28125	18.41487	16.1215	56	4.48	2.4	0.24	-6.71
114	54.1	57	16.25284	18.40509	16.15265	57	4.48	2.41	0.24	-6.71
116	54.1	58	16.28125	18.38552	16.13707	58	4.48	2.42	0.24	-6.7
118	54.05	59	16.25284	18.38552	16.13707	59	4.5	2.44	0.24	-6.69
120	53.92	60	16.16761	18.42466	16.13707	60	4.51	2.46	0.26	-6.67
122	53.94	61	16.16761	18.45401	16.16822	61	4.52	2.47	0.27	-6.65
124	53.99	62	16.1108	18.40509	16.19938	62	4.52	2.47	0.27	-6.65
126	53.82	63	16.09659	18.37573	16.23053	63	4.52	2.47	0.26	-6.65
128	53.8	64	16.1392	18.3953	16.21495	64	4.51	2.47	0.26	-6.65
130	53.7	65	16.125	18.41487	16.15265	65	4.51	2.47	0.25	-6.65
132	53.67	66	16.15341	18.43444	16.1838	66	4.5	2.47	0.24	-6.65
134	53.66	67	16.1392	18.40509	16.27726	67	4.51	2.47	0.24	-6.64
136	53.57	68	16.1108	18.38552	16.26168	68	4.5	2.47	0.23	-6.64
138	53.5	69	16.125	18.43444	16.1838	69	4.5	2.47	0.23	-6.64
140	53.43	70	16.1108	18.50294	16.13707	70	4.5	2.47	0.22	-6.63
		71	16.05398	18.4638	16.15265	71	4.5	2.47	0.22	-6.63
		72	16.02557	18.45401	16.19938	72	4.5	2.47	0.21	-6.63
		73	16.03977	18.45401	16.19938	73	4.5	2.47	0.21	-6.62
		74	16.03977	18.44423	16.21495	74	4.49	2.47	0.21	-6.62
		75	16.02557	18.40509	16.1838	75	4.5	2.47	0.2	-6.62
		76	16.08239	18.38552	16.23053	76	4.49	2.47	0.2	-6.62
		77	16.06818	18.41487	16.21495	77	4.5	2.48	0.2	-6.61
		78	16.02557	18.41487	16.13707	78	4.5	2.49	0.2	-6.61
		79	15.99716	18.38552	16.16822	79	4.5	2.48	0.2	-6.6
		80	15.94034	18.3953	16.15265	80	4.52	2.5	0.21	-6.58
		81	15.99716	18.37573	16.15265	81	4.51	2.5	0.21	-6.59
		82	16.02557	18.3953	16.21495	82	4.51	2.51	0.21	-6.58
		83	16.01136	18.40509	16.16822	83	4.51	2.5	0.21	-6.58
		84	16.02557	18.40509	16.13707	84	4.51	2.5	0.21	-6.58
		85	15.98295	18.41487	16.13707	85	4.51	2.51	0.2	-6.57
		86	15.96875	18.3953	16.16822	86	4.51	2.5	0.2	-6.57
		87	15.96875	18.38552	16.13707	87	4.52	2.51	0.21	-6.56
		88	15.98295	18.40509	16.19938	88	4.51	2.51	0.2	-6.56
		89	15.98295	18.42466	16.16822	89	4.52	2.52	0.2	-6.55
		90	15.96875	18.43444	16.1215	90	4.51	2.52	0.2	-6.56
		91	15.95455	18.33659	16.13707	91	4.53	2.53	0.21	-6.54
		92	15.99716	18.30724	16.13707	92	4.53	2.55	0.22	-6.53
		93	15.98295	18.34638	16.10592	93	4.54	2.56	0.23	-6.52
		94	15.95455	18.33659	16.1215	94	4.55	2.57	0.23	-6.51
		95	15.94034	18.36595	16.13707	95	4.54	2.56	0.22	-6.51
		96	15.95455	18.3953	16.23053	96	4.55	2.57	0.22	-6.51
		97	15.94034	18.38552	16.27726	97	4.55	2.58	0.21	-6.5

98	15.95455	18.36595	16.19938	98	4.55	2.58	0.21	-6.5
99	15.94034	18.36595	16.10592	99	4.54	2.57	0.21	-6.5
100	15.92614	18.41487	16.13707	100	4.55	2.59	0.21	-6.49
101	15.91193	18.44423	16.15265	101	4.54	2.57	0.2	-6.49
102	15.89773	18.38552	16.1838	102	4.55	2.59	0.21	-6.49
103	15.88352	18.40509	16.1838	103	4.55	2.59	0.22	-6.48
104	15.88352	18.34638	16.09034	104	4.55	2.59	0.21	-6.47
105	15.8267	18.31703	16.09034	105	4.55	2.59	0.21	-6.47
106	15.88352	18.32681	16.13707	106	4.55	2.59	0.21	-6.47
107	15.85511	18.34638	16.10592	107	4.56	2.6	0.22	-6.46
108	15.89773	18.37573	16.16822	108	4.56	2.61	0.22	-6.46
109	15.88352	18.38552	16.13707	109	4.56	2.61	0.22	-6.45
110	15.91193	18.38552	16.09034	110	4.56	2.62	0.22	-6.45
111	15.89773	18.37573	16.1215	111	4.56	2.62	0.22	-6.45
112	15.84091	18.37573	16.13707	112	4.57	2.63	0.24	-6.43
113	15.89773	18.3953	16.1215	113	4.56	2.62	0.23	-6.41
114	15.84091	18.33659	16.07477	114	4.56	2.62	0.22	-6.4
115	15.8267	18.37573	16.05919	115	4.56	2.63	0.22	-6.39
116	15.84091	18.41487	16.07477	116	4.56	2.64	0.22	-6.38
117	15.95455	18.42466	16.05919	117	4.56	2.63	0.21	-6.38
118	15.94034	18.40509	16.09034	118	4.57	2.64	0.21	-6.38
119	15.92614	18.3953	16.13707	119	4.56	2.64	0.21	-6.38
120	15.85511	18.41487	16.15265	120	4.57	2.65	0.21	-6.37
121	15.8267	18.45401	16.1838	121	4.56	2.64	0.2	-6.38
122	15.8125	18.47358	16.16822	122	4.57	2.65	0.2	-6.37
123	15.8125	18.44423	16.10592	123	4.57	2.66	0.2	-6.37
124	15.8125	18.42466	16.09034	124	4.57	2.66	0.2	-6.36
125	15.84091	18.36595	16.09034	125	4.57	2.66	0.2	-6.36
126	15.8267	18.35616	16.1215	126	4.58	2.67	0.2	-6.35
127	15.85511	18.33659	16.10592	127	4.58	2.67	0.2	-6.35
128	15.8267	18.40509	16.05919	128	4.58	2.68	0.2	-6.35
129	15.84091	18.36595	16.07477	129	4.58	2.67	0.2	-6.35
130	15.86932	18.37573	16.1215	130	4.58	2.67	0.2	-6.34
131	15.86932	18.3953	16.05919	131	4.58	2.68	0.21	-6.34
132	15.8125	18.38552	16.04361	132	4.58	2.69	0.21	-6.34
133	15.8125	18.36595	16.02804	133	4.58	2.69	0.21	-6.33
134	15.76989	18.34638	16.02804	134	4.58	2.69	0.22	-6.32
135	15.78409	18.32681	16.02804	135	4.58	2.7	0.22	-6.32
136	15.78409	18.35616	16.05919	136	4.59	2.7	0.22	-6.32
137	15.8125	18.36595	16.04361	137	4.59	2.71	0.23	-6.31
138	15.76989	18.31703	16.01246	138	4.6	2.72	0.24	-6.3
139	15.7983	18.37573	16.02804	139	4.6	2.72	0.23	-6.3
140	15.78409	18.37573	16.04361	140	4.6	2.73	0.24	-6.29

HigherRH_exp_8

Experiment type: Higher humidity experiment. This experiment consisted of four ice cubes in the petridish. There was not a humidity buffer inside the chamber. The sample was raised 13.3 cm off the chamber floor. Chiller was set to - 15°C. Temperature around the sample was controlled by the chiller. The pressure ranged from 10-11.3 mbar.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= atmosphere 3= humidity buffer 4= sample

Mass Min.	Mass	RH Min.	Ch02	Ch03	Ch04	T Min.	Ch01	Ch02	Ch03	Ch04
0	49.12	0	27.23295	27.85714	41.86916	0	6.86	7.22	-4.36	-7.68
2	49.32	1	25.10227	28.38552	39.89097	1	1.99	2.07	-5.13	-8.92
4	49.74	2	26.08239	31.81018	36.47975	2	2.38	1.66	-5.15	-9.9
6	49.65	3	26.7642	34.09002	33.19315	3	3.14	2.23	-5.13	-9.91
8	49.89	4	26.21023	33.62035	30.48287	4	3.09	2.01	-5.1	-9.71
10	49.95	5	26.26705	33.18982	26.80685	5	3.02	1.61	-5.04	-9.54
12	50	6	26.63636	33.21918	22.57009	6	3.53	1.79	-4.89	-9.29
14	50.01	7	26.72159	33.48337	18.97196	7	4.25	2.1	-4.73	-8.86
16	49.96	8	25.85511	33.65949	16.91589	8	4.71	2.2	-4.57	-8.47
18	50.01	9	24.17898	32.80822	15.66978	9	4.96	2.32	-4.41	-8.17
20	50.03	10	22.81534	31.12524	14.95327	10	4.99	2.29	-4.28	-8
22	49.97	11	21.93466	29.68689	14.61059	11	4.98	2.24	-4.15	-7.89
24	50.08	12	21.1108	28.78669	14.22118	12	4.99	2.22	-4.02	-7.8
26	49.99	13	20.30114	28.18004	13.84735	13	5	2.21	-3.89	-7.71
28	50.02	14	19.64773	27.79843	13.56698	14	5	2.19	-3.78	-7.64
30	50.01	15	19.13636	27.47554	13.36449	15	5.01	2.19	-3.66	-7.57
32	49.92	16	18.68182	27.19178	13.25545	16	5.02	2.19	-3.56	-7.5
34	49.94	17	18.35511	26.9863	13.2243	17	5.02	2.19	-3.47	-7.44
36	49.84	18	18.04261	26.83953	13.19315	18	5.03	2.19	-3.39	-7.4
38	49.88	19	17.78693	26.77104	13.2243	19	5.02	2.17	-3.33	-7.37
40	49.8	20	17.61648	26.68297	13.2243	20	4.99	2.13	-3.29	-7.35
42	49.81	21	17.43182	26.6047	13.27103	21	4.96	2.1	-3.26	-7.34
44	49.61	22	17.26136	26.56556	13.33333	22	4.94	2.06	-3.23	-7.34
46	49.49	23	17.17614	26.5362	13.38006	23	4.91	2.03	-3.2	-7.33
48	49.42	24	17.0625	26.45793	13.47352	24	4.89	2	-3.17	-7.32
50	49.48	25	16.96307	26.37965	13.45794	25	4.87	1.98	-3.13	-7.31
52	49.37	26	16.89205	26.38943	13.50467	26	4.85	1.96	-3.1	-7.29

54	49.48	27	16.75	26.35029	13.59813	27	4.85	1.96	-3.07	-7.27
56	49.74	28	16.70739	26.34051	13.62928	28	4.82	1.94	-3.05	-7.27
58	49.56	29	16.69318	26.36008	13.70717	29	4.82	1.93	-3.03	-7.25
60	49.48	30	16.62216	26.36008	13.78505	30	4.8	1.92	-3.01	-7.24
62	49.47	31	16.60795	26.33072	13.83178	31	4.79	1.91	-2.98	-7.22
64	49.45	32	16.60795	26.32094	13.89408	32	4.79	1.9	-2.96	-7.2
66	49.3	33	16.52273	26.38943	13.8785	33	4.76	1.88	-2.95	-7.2
68	49.3	34	16.46591	26.34051	13.97196	34	4.76	1.88	-2.93	-7.18
70	49.24	35	16.46591	26.31115	14.12773	35	4.75	1.87	-2.91	-7.17
72	49.24	36	16.40909	26.25245	14.20561	36	4.75	1.87	-2.89	-7.15
74	49.2	37	16.38068	26.29159	14.1433	37	4.74	1.86	-2.87	-7.14
76	49.12	38	16.4375	26.26223	14.20561	38	4.73	1.85	-2.86	-7.13
78	49.11	39	16.40909	26.23288	14.25234	39	4.73	1.85	-2.84	-7.12
80	49.01	40	16.40909	26.22309	14.28349	40	4.72	1.85	-2.83	-7.11
82	48.98	41	16.38068	26.27202	14.29907	41	4.72	1.85	-2.81	-7.09
84	48.94	42	16.36648	26.27202	14.34579	42	4.72	1.85	-2.79	-7.07
86	48.9	43	16.30966	26.14481	14.39252	43	4.71	1.85	-2.78	-7.06
88	48.88	44	16.32386	25.97847	14.42368	44	4.71	1.85	-2.77	-7.04
90	48.82	45	16.29545	25.81213	14.42368	45	4.7	1.84	-2.75	-7.03
92	48.78	46	16.26705	25.69472	14.4704	46	4.7	1.84	-2.74	-7.02
94	48.72	47	16.26705	25.60665	14.50156	47	4.69	1.84	-2.73	-7.01
96	48.71	48	16.26705	25.49902	14.50156	48	4.7	1.84	-2.72	-7
98	48.68	49	16.26705	25.50881	14.51713	49	4.69	1.84	-2.71	-6.99
100	48.59	50	16.26705	25.46967	14.56386	50	4.68	1.83	-2.7	-6.98
102	48.53	51	16.28125	25.3816	14.57944	51	4.68	1.83	-2.7	-6.97
104	48.5	52	16.21023	25.3229	14.59502	52	4.66	1.82	-2.61	-6.98
106	48.42	53	16.21023	25.28376	14.61059	53	4.65	1.81	-2.51	-6.98
108	48.31	54	16.19602	25.21526	14.65732	54	4.65	1.81	-2.48	-6.97
110	48.34	55	16.19602	25.09785	14.65732	55	4.64	1.81	-2.47	-6.97
112	48.28	56	16.23864	25.01957	14.6729	56	4.64	1.8	-2.46	-6.96
114	48.25	57	16.18182	24.90215	14.68847	57	4.63	1.8	-2.45	-6.95
116	48.17	58	16.125	24.81409	14.6729	58	4.62	1.8	-2.44	-6.95
118	48.15	59	16.125	24.76517	14.71963	59	4.62	1.8	-2.44	-6.93
120	48.05	60	16.18182	24.73581	14.7352	60	4.62	1.81	-2.43	-6.92
122	48.04	61	16.18182	24.72603	14.78193	61	4.62	1.8	-2.43	-6.92
124	48.01	62	16.1392	24.65753	14.76636	62	4.62	1.8	-2.42	-6.91
126	47.97	63	16.125	24.60861	14.79751	63	4.6	1.8	-2.42	-6.91
128	47.89	64	16.19602	24.54012	14.78193	64	4.61	1.8	-2.41	-6.9
130	47.82	65	16.125	24.49119	14.79751	65	4.6	1.79	-2.41	-6.89
132	47.78	66	16.1108	24.49119	14.79751	66	4.6	1.8	-2.4	-6.88
134	47.77	67	16.08239	24.45205	14.79751	67	4.6	1.8	-2.39	-6.87
136	48.02	68	16.09659	24.46184	14.81308	68	4.6	1.8	-2.39	-6.86
138	47.98	69	16.06818	24.41292	14.82866	69	4.6	1.8	-2.38	-6.84
140	47.91	70	16.03977	24.40313	14.78193	70	4.59	1.8	-2.38	-6.85
142	47.83	71	16.08239	24.38356	14.75078	71	4.59	1.8	-2.38	-6.84

144	47.79	72	16.06818	24.34442	14.78193	72	4.57	1.79	-2.38	-6.84
146	47.75	73	16.02557	24.28571	14.81308	73	4.58	1.79	-2.38	-6.83
148	47.72	74	15.96875	24.25636	14.76636	74	4.58	1.8	-2.37	-6.82
		75	15.95455	24.22701	14.76636	75	4.57	1.79	-2.37	-6.81
		76	15.96875	24.22701	14.79751	76	4.57	1.8	-2.36	-6.8
		77	15.96875	24.19765	14.78193	77	4.57	1.8	-2.36	-6.8
		78	15.95455	24.1683	14.79751	78	4.58	1.81	-2.35	-6.78
		79	15.95455	24.19765	14.79751	79	4.58	1.81	-2.34	-6.78
		80	15.95455	24.17808	14.81308	80	4.58	1.82	-2.34	-6.77
		81	15.89773	24.11937	14.82866	81	4.57	1.81	-2.34	-6.76
		82	15.86932	24.10959	14.75078	82	4.56	1.81	-2.34	-6.77
		83	15.91193	24.08023	14.7352	83	4.57	1.82	-2.33	-6.75
		84	15.89773	24.03131	14.75078	84	4.57	1.82	-2.33	-6.74
		85	15.86932	24.0411	14.75078	85	4.57	1.82	-2.32	-6.74
		86	15.88352	24.05088	14.76636	86	4.57	1.82	-2.32	-6.74
		87	15.85511	24.02153	14.75078	87	4.56	1.81	-2.32	-6.74
		88	15.85511	24.02153	14.79751	88	4.57	1.83	-2.3	-6.72
		89	15.8125	23.9726	14.7352	89	4.58	1.84	-2.3	-6.7
		90	15.78409	23.93346	14.70405	90	4.58	1.84	-2.29	-6.69
		91	15.8267	23.93346	14.68847	91	4.57	1.84	-2.29	-6.7
		92	15.8267	23.94325	14.6729	92	4.57	1.83	-2.29	-6.69
		93	15.75568	23.94325	14.70405	93	4.59	1.85	-2.28	-6.67
		94	15.72727	23.91389	14.7352	94	4.58	1.85	-2.28	-6.67
		95	15.75568	23.92368	14.75078	95	4.57	1.84	-2.28	-6.67
		96	15.7983	23.93346	14.65732	96	4.58	1.85	-2.28	-6.67
		97	15.7983	23.91389	14.65732	97	4.57	1.84	-2.28	-6.67
		98	15.76989	23.91389	14.62617	98	4.57	1.84	-2.28	-6.66
		99	15.76989	23.86497	14.65732	99	4.57	1.85	-2.28	-6.66
		100	15.72727	23.8454	14.65732	100	4.56	1.84	-2.28	-6.66
		101	15.72727	23.82583	14.70405	101	4.56	1.84	-2.28	-6.66
		102	15.71307	23.83562	14.68847	102	4.56	1.84	-2.27	-6.65
		103	15.74148	23.83562	14.71963	103	4.56	1.85	-2.27	-6.64
		104	15.72727	23.8454	14.70405	104	4.55	1.84	-2.27	-6.65
		105	15.69886	23.87476	14.65732	105	4.57	1.86	-2.26	-6.63
		106	15.72727	23.83562	14.68847	106	4.56	1.85	-2.26	-6.63
		107	15.71307	23.80626	14.68847	107	4.57	1.86	-2.25	-6.61
		108	15.69886	23.77691	14.61059	108	4.56	1.85	-2.26	-6.62
		109	15.68466	23.82583	14.61059	109	4.57	1.86	-2.25	-6.61
		110	15.61364	23.79648	14.59502	110	4.56	1.86	-2.25	-6.61
		111	15.67045	23.78669	14.61059	111	4.56	1.87	-2.25	-6.6
		112	15.69886	23.80626	14.59502	112	4.56	1.87	-2.25	-6.6
		113	15.71307	23.80626	14.61059	113	4.56	1.87	-2.24	-6.59
		114	15.68466	23.8454	14.59502	114	4.56	1.87	-2.24	-6.59
		115	15.71307	23.82583	14.61059	115	4.56	1.88	-2.24	-6.58
		116	15.69886	23.80626	14.56386	116	4.55	1.87	-2.24	-6.58

117	15.64205	23.75734	14.54829	117	4.57	1.88	-2.23	-6.57
118	15.59943	23.76712	14.51713	118	4.56	1.88	-2.23	-6.57
119	15.67045	23.76712	14.53271	119	4.56	1.88	-2.22	-6.56
120	15.61364	23.77691	14.57944	120	4.57	1.9	-2.22	-6.55
121	15.59943	23.77691	14.54829	121	4.56	1.9	-2.21	-6.54
122	15.62784	23.75734	14.56386	122	4.57	1.9	-2.21	-6.54
123	15.59943	23.74755	14.53271	123	4.57	1.91	-2.2	-6.53
124	15.55682	23.74755	14.51713	124	4.57	1.9	-2.2	-6.53
125	15.55682	23.69863	14.51713	125	4.57	1.91	-2.2	-6.52
126	15.59943	23.72798	14.50156	126	4.56	1.9	-2.2	-6.52
127	15.61364	23.73777	14.4704	127	4.57	1.92	-2.2	-6.51
128	15.57102	23.69863	14.45483	128	4.57	1.93	-2.19	-6.5
129	15.5142	23.67906	14.45483	129	4.57	1.93	-2.18	-6.49
130	15.54261	23.68885	14.4704	130	4.58	1.94	-2.17	-6.48
131	15.5	23.68885	14.4704	131	4.58	1.94	-2.17	-6.48
132	15.5	23.69863	14.50156	132	4.58	1.94	-2.17	-6.47
133	15.55682	23.70841	14.48598	133	4.58	1.94	-2.17	-6.47
134	15.55682	23.7182	14.4704	134	4.59	1.95	-2.16	-6.47
135	15.61364	23.74755	14.48598	135	4.6	1.97	-2.15	-6.45
136	15.52841	23.70841	14.53271	136	4.61	1.98	-2.14	-6.44
137	15.5	23.70841	14.50156	137	4.62	2	-2.13	-6.43
138	15.45739	23.66928	14.48598	138	4.63	2.01	-2.11	-6.42
139	15.5	23.63014	14.50156	139	4.62	2.01	-2.11	-6.42
140	15.4858	23.60078	14.4704	140	4.63	2.02	-2.1	-6.41
141	15.54261	23.61057	14.42368	141	4.63	2.02	-2.1	-6.41
142	15.55682	23.61057	14.39252	142	4.62	2.01	-2.11	-6.41
143	15.58523	23.65949	14.4081	143	4.63	2.02	-2.1	-6.4
144	15.54261	23.65949	14.43925	144	4.64	2.03	-2.1	-6.39
145	15.55682	23.64971	14.42368	145	4.63	2.03	-2.1	-6.39
146	15.55682	23.62035	14.43925	146	4.63	2.03	-2.1	-6.4

HigherRH_exp_9

Experiment type: Higher humidity experiment. This experiment consisted of just an empty petridish. The two humidity buffers were NaCl which have a RH of 75% at 0 degrees Celsius. One of the buffers is raised 15.25 cm off the chamber floor. The sample was raised 13.3 cm off the chamber floor. Chiller was set to - 15°C. Temperature around the sample was controlled by the chiller. The pressure was at ambient pressure (973 mbar). Three open sandwich bags of water ice were placed around the sample.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= atmosphere 3= humidity buffer 4= sample

Mass Min.	Mass	RH Min.	Ch02	Ch03	Ch04	T Min.	Ch01	Ch02	Ch03	Ch04
0	244.56	0	44.51989	31.95695	29.09657	0	12.56	6.02	-0.45	-9.26
2	244.56	1	42.24716	31.75147	27.74143	1	5.82	5.76	-0.68	-9.25
4	244.56	2	39.73295	32.92564	26.93146	2	5.6	5.6	-0.79	-9.19
6	244.56	3	38.08523	33.16047	26.68224	3	4.77	5.24	-0.94	-9.4
8	244.56	4	35.8125	31.93738	26.43302	4	4.46	4.9	-1.08	-9.48
10	244.45	5	33.89489	31.03718	26.04361	5	4.26	4.62	-1.19	-9.52
12	244.55	6	32.28977	30.42074	25.5919	6	4.11	4.39	-1.28	-9.56
14	244.56	7	30.94034	29.97065	25.17134	7	3.99	4.19	-1.36	-9.58
16	244.56	8	29.76136	29.59883	24.81308	8	3.91	4.03	-1.42	-9.59
18	244.56	9	28.75284	29.27593	24.50156	9	3.84	3.87	-1.47	-9.6
20	244.56	10	27.94318	29.05088	24.20561	10	4.61	3.65	-1.51	-9.57
22	244.56	11	27.40341	28.62035	23.98754	11	9.08	3.73	-1.41	-9.35
24	244.56	12	27.21875	28.15068	23.86293	12	9.1	3.93	-1.25	-9.21
26	244.56	13	27.20455	28.34638	23.80062	13	4.89	4	-1.28	-9.32
28	244.56	14	27.00568	28.75734	23.75389	14	4.39	3.88	-1.36	-9.4
30	244.56	15	26.80682	29.25636	23.89408	15	4.92	3.86	-1.39	-9.26
32	244.56	16	26.87784	29.88258	24.11215	16	4.18	3.87	-1.41	-9.45
34	244.56	17	26.70739	29.26614	24.36137	17	3.94	3.75	-1.46	-9.54
36	244.56	18	26.30966	28.56164	24.6729	18	3.89	3.61	-1.51	-9.57
38	244.56	19	25.84091	28.18004	24.90654	19	3.86	3.5	-1.54	-9.58
40	244.56	20	25.47159	27.95499	24.98442	20	3.82	3.43	-1.58	-9.59
42	244.56	21	25.30114	27.7593	25.01558	21	3.79	3.37	-1.6	-9.61
44	244.56	22	25.14489	27.54403	25.09346	22	3.79	3.33	-1.61	-9.61
46	244.56	23	25.01705	27.35812	25.17134	23	3.76	3.28	-1.64	-9.62
48	244.56	24	24.90341	27.2407	25.18692	24	3.73	3.24	-1.66	-9.64
50	244.56	25	24.83239	27.09393	25.15576	25	3.72	3.2	-1.67	-9.65
52	244.56	26	24.76136	26.96673	25.14019	26	3.71	3.17	-1.68	-9.65
54	244.56	27	24.66193	26.89824	25.10903	27	3.7	3.14	-1.7	-9.67
56	244.56	28	24.67614	26.80039	25.04673	28	3.68	3.12	-1.7	-9.67
58	244.56	29	24.66193	26.74168	25.17134	29	3.67	3.09	-1.71	-9.67
60	244.56	30	24.60511	26.61448	25.15576	30	3.66	3.08	-1.71	-9.68
62	244.56	31	24.51989	26.51663	25.09346	31	3.66	3.06	-1.72	-9.67
64	244.56	32	24.53409	26.43836	25.14019	32	3.66	3.04	-1.73	-9.68
66	244.56	33	24.50568	26.36008	25.20249	33	3.65	3.03	-1.73	-9.7
68	244.56	34	24.5483	26.2818	25.21807	34	3.64	3.02	-1.73	-9.73
70	244.56	35	24.5483	26.1546	25.23364	35	3.64	3.01	-1.73	-9.75
72	244.56	36	24.59091	25.99804	25.21807	36	3.65	3	-1.73	-9.73
74	244.56	37	24.5767	25.89041	25.2648	37	3.72	3	-1.72	-9.67

76	244.56	38	24.50568	25.84149	25.29595	38	3.8	3.01	-1.71	-9.61
78	244.56	39	24.49148	25.81213	25.2648	39	3.85	3.02	-1.7	-9.56
80	244.56	40	24.44886	25.76321	25.2648	40	3.88	3.03	-1.69	-9.52
82	244.56	41	24.36364	25.76321	25.31153	41	3.89	3.03	-1.68	-9.48
84	244.56	42	24.22159	25.71429	25.37383	42	3.89	3.03	-1.67	-9.45
86	244.56	43	24.16477	25.67515	25.42056	43	3.89	3.04	-1.67	-9.44
88	244.56	44	24.07955	25.63601	25.43614	44	3.89	3.04	-1.66	-9.42
90	244.56	45	24.03693	25.5773	25.49844	45	3.89	3.04	-1.66	-9.41
92	244.56	46	24.00852	25.50881	25.49844	46	3.88	3.03	-1.66	-9.41
94	244.56	47	23.98011	25.46967	25.45171	47	3.89	3.04	-1.65	-9.4
96	244.56	48	23.9375	25.41096	25.45171	48	3.9	3.05	-1.64	-9.39
98	244.56	49	23.86648	25.37182	25.48287	49	3.9	3.05	-1.64	-9.4
100	244.56	50	23.82386	25.31311	25.43614	50	3.9	3.04	-1.64	-9.4
102	244.56	51	23.82386	25.26419	25.40498	51	3.9	3.05	-1.64	-9.4
104	244.56	52	23.78125	25.19569	25.42056	52	3.91	3.05	-1.63	-9.39
106	244.56	53	23.76705	25.1272	25.43614	53	3.91	3.05	-1.63	-9.39
108	244.56	54	23.69602	25.03914	25.40498	54	3.92	3.06	-1.63	-9.38
110	244.56	55	23.65341	24.99022	25.38941	55	3.91	3.05	-1.63	-9.39
112	244.56	56	23.56818	24.92172	25.37383	56	3.91	3.05	-1.63	-9.39
114	244.56	57	23.55398	24.86301	25.37383	57	3.92	3.06	-1.63	-9.39
116	244.56	58	23.51136	24.81409	25.34268	58	3.92	3.06	-1.63	-9.39
118	244.56	59	23.42614	24.75538	25.28037	59	3.93	3.07	-1.62	-9.38
120	244.56	60	23.39773	24.73581	25.21807	60	3.92	3.06	-1.62	-9.39
122	244.56	61	23.38352	24.73581	25.18692	61	3.93	3.07	-1.62	-9.39
124	244.56	62	23.34091	24.68689	25.12461	62	3.94	3.07	-1.62	-9.39
126	244.56	63	23.25568	24.6771	25.12461	63	3.94	3.08	-1.61	-9.39
128	244.56	64	23.18466	24.59883	25.07788	64	3.94	3.08	-1.61	-9.38
130	244.56	65	23.11364	24.54012	24.98442	65	3.95	3.09	-1.6	-9.37
132	244.56	66	23.02841	24.48141	24.92212	66	3.95	3.09	-1.6	-9.38
134	244.56	67	22.9858	24.44227	24.90654	67	3.96	3.1	-1.6	-9.37
136	244.56	68	22.95739	24.41292	24.79751	68	3.96	3.1	-1.6	-9.37
138	244.56	69	22.90057	24.38356	24.7352	69	3.96	3.1	-1.59	-9.38
140	244.56	70	22.85795	24.31507	24.71963	70	3.97	3.1	-1.59	-9.38
142	244.56	71	22.80114	24.31507	24.65732	71	3.96	3.1	-1.6	-9.38
144	244.56	72	22.74432	24.23679	24.62617	72	3.97	3.11	-1.59	-9.38
146	244.56	73	22.73011	24.1683	24.56386	73	3.97	3.11	-1.59	-9.38
148	244.56	74	22.7017	24.1683	24.4704	74	3.97	3.11	-1.59	-9.38
150	244.56	75	22.60227	24.11937	24.4704	75	3.97	3.11	-1.59	-9.38
152	244.56	76	22.51705	24.0411	24.45483	76	3.98	3.12	-1.59	-9.38
154	244.56	77	22.47443	23.99217	24.42368	77	3.97	3.11	-1.59	-9.39
156	244.56	78	22.48864	24.00196	24.33022	78	3.97	3.11	-1.59	-9.39
158	244.56	79	22.50284	23.91389	24.26791	79	3.98	3.12	-1.59	-9.38
160	244.56	80	22.44602	23.86497	24.25234	80	3.98	3.12	-1.58	-9.38
162	244.56	81	22.3608	23.85519	24.19003	81	3.99	3.13	-1.58	-9.38
164	244.56	82	22.31818	23.8454	24.19003	82	3.99	3.13	-1.57	-9.38

166	244.56	83	22.34659	23.81605	24.081	83	3.99	3.14	-1.57	-9.37
168	244.56	84	22.31818	23.80626	23.98754	84	4	3.14	-1.57	-9.37
170	244.56	85	22.30398	23.75734	23.98754	85	4	3.15	-1.56	-9.36
172	244.56	86	22.23295	23.72798	23.92523	86	4	3.15	-1.56	-9.36
174	244.56	87	22.19034	23.74755	23.86293	87	4	3.14	-1.57	-9.37
176	244.56	88	22.14773	23.72798	23.76947	88	4	3.15	-1.56	-9.37
178	244.56	89	22.10511	23.67906	23.69159	89	4.01	3.15	-1.56	-9.37
180	244.56	90	22.03409	23.64971	23.66044	90	4.01	3.15	-1.56	-9.37
182	244.56	91	21.96307	23.63992	23.59813	91	4.01	3.16	-1.55	-9.36
184	244.56	92	21.92045	23.591	23.58255	92	4.01	3.16	-1.55	-9.36
186	244.56	93	21.96307	23.54207	23.53583	93	4.02	3.16	-1.55	-9.36
188	244.56	94	21.99148	23.50294	23.45794	94	4.01	3.16	-1.55	-9.37
190	244.56	95	21.92045	23.48337	23.44237	95	4.02	3.17	-1.55	-9.36
192	244.56	96	21.87784	23.42466	23.36449	96	4.02	3.17	-1.55	-9.36
194	244.56	97	21.87784	23.36595	23.38006	97	4.02	3.17	-1.55	-9.37
196	244.56	98	21.84943	23.29746	23.38006	98	4.02	3.17	-1.55	-9.37
198	244.55	99	21.79261	23.22896	23.30218	99	4.02	3.17	-1.55	-9.37
200	244.56	100	21.70739	23.19961	23.2243	100	4.02	3.17	-1.54	-9.36
202	244.55	101	21.69318	23.23875	23.17757	101	4.02	3.17	-1.55	-9.37
204	244.56	102	21.69318	23.18004	23.11526	102	4.02	3.17	-1.55	-9.37
206	244.56	103	21.67898	23.1409	23.11526	103	4.03	3.18	-1.54	-9.36
208	244.55	104	21.65057	23.13112	23.13084	104	4.03	3.18	-1.54	-9.36
210	244.56	105	21.65057	23.11155	23.05296	105	4.03	3.18	-1.54	-9.36
212	244.55	106	21.57955	23.12133	22.97508	106	4.03	3.18	-1.54	-9.36
214	244.55	107	21.55114	23.08219	22.94393	107	4.03	3.19	-1.54	-9.36
216	244.55	108	21.56534	23.03327	22.86604	108	4.03	3.19	-1.54	-9.36
218	244.56	109	21.59375	23.08219	22.83489	109	4.03	3.19	-1.54	-9.36
220	244.56	110	21.60795	23.04305	22.85047	110	4.03	3.19	-1.54	-9.37
222	244.55	111	21.53693	23.0137	22.80374	111	4.03	3.19	-1.54	-9.36
224	244.55	112	21.4375	22.99413	22.75701	112	4.03	3.19	-1.53	-9.36
226	244.55	113	21.4375	22.98434	22.71028	113	4.04	3.19	-1.53	-9.36
228	244.55	114	21.4233	22.99413	22.66355	114	4.03	3.19	-1.53	-9.36
230	244.55	115	21.38068	22.94521	22.60125	115	4.03	3.19	-1.53	-9.36
232	244.55	116	21.36648	22.89628	22.58567	116	4.04	3.2	-1.53	-9.36
234	244.55	117	21.39489	22.93542	22.50779	117	4.04	3.2	-1.52	-9.35
236	244.55	118	21.32386	22.90607	22.42991	118	4.04	3.2	-1.53	-9.35
238	244.55	119	21.29545	22.87671	22.41433	119	4.04	3.21	-1.52	-9.35
240	244.55	120	21.33807	22.87671	22.38318	120	4.05	3.21	-1.52	-9.35
242	244.55	121	21.32386	22.8865	22.35202	121	4.05	3.21	-1.52	-9.35
244	244.55	122	21.29545	22.86693	22.32087	122	4.05	3.21	-1.52	-9.35
246	244.55	123	21.22443	22.84736	22.3053	123	4.06	3.22	-1.51	-9.34
248	244.55	124	21.25284	22.818	22.28972	124	4.07	3.23	-1.5	-9.33
250	244.55	125	21.19602	22.83757	22.25857	125	4.06	3.23	-1.5	-9.34
252	244.55	126	21.18182	22.76908	22.16511	126	4.06	3.23	-1.5	-9.33
254	244.55	127	21.16761	22.76908	22.14953	127	4.07	3.23	-1.5	-9.33

256	244.55	128	21.1392	22.73973	22.08723	128	4.06	3.23	-1.5	-9.34
258	244.55	129	21.19602	22.71037	22.0405	129	4.06	3.23	-1.5	-9.34
260	244.55	130	21.18182	22.73973	22.0405	130	4.06	3.23	-1.5	-9.34
262	244.55	131	21.16761	22.72994	22.0405	131	4.07	3.24	-1.5	-9.34
264	244.55	132	21.16761	22.71037	22.00935	132	4.07	3.24	-1.5	-9.34
266	244.55	133	21.16761	22.66145	21.96262	133	4.07	3.24	-1.49	-9.33
268	244.55	134	21.19602	22.66145	21.91589	134	4.08	3.25	-1.49	-9.33
270	244.55	135	21.19602	22.64188	21.88474	135	4.08	3.25	-1.49	-9.32
		136	21.1108	22.58317	21.86916	136	4.07	3.24	-1.5	-9.33
		137	21.1108	22.63209	21.88474	137	4.07	3.24	-1.5	-9.33
		138	21.18182	22.65166	21.85358	138	4.08	3.25	-1.49	-9.33
		139	21.1392	22.57339	21.82243	139	4.08	3.25	-1.48	-9.33
		140	21.1108	22.58317	21.7757	140	4.08	3.26	-1.48	-9.32
		141	21.09659	22.55382	21.7134	141	4.08	3.25	-1.49	-9.33
		142	21.05398	22.50489	21.72897	142	4.08	3.25	-1.49	-9.33
		143	21.09659	22.50489	21.72897	143	4.09	3.26	-1.48	-9.32
		144	21.06818	22.53425	21.7134	144	4.09	3.26	-1.48	-9.32
		145	21.02557	22.55382	21.58879	145	4.09	3.27	-1.48	-9.32
		146	21.03977	22.53425	21.55763	146	4.09	3.26	-1.48	-9.32
		147	20.98295	22.50489	21.63551	147	4.09	3.27	-1.48	-9.32
		148	21.01136	22.52446	21.61994	148	4.09	3.27	-1.48	-9.32
		149	21.02557	22.50489	21.55763	149	4.1	3.28	-1.47	-9.31
		150	21.01136	22.42661	21.4486	150	4.1	3.28	-1.46	-9.3
		151	20.99716	22.44618	21.41745	151	4.1	3.28	-1.46	-9.31
		152	20.99716	22.49511	21.41745	152	4.1	3.28	-1.46	-9.3
		153	21.01136	22.48532	21.41745	153	4.1	3.28	-1.47	-9.31
		154	21.01136	22.46575	21.35514	154	4.1	3.27	-1.47	-9.32
		155	20.99716	22.42661	21.32399	155	4.1	3.28	-1.47	-9.31
		156	20.92614	22.42661	21.32399	156	4.1	3.27	-1.47	-9.32
		157	20.95455	22.45597	21.30841	157	4.1	3.28	-1.47	-9.31
		158	20.94034	22.46575	21.24611	158	4.1	3.28	-1.47	-9.31
		159	20.92614	22.4364	21.23053	159	4.1	3.28	-1.47	-9.31
		160	20.94034	22.38748	21.19938	160	4.1	3.28	-1.47	-9.32
		161	20.86932	22.36791	21.16822	161	4.1	3.28	-1.47	-9.31
		162	20.86932	22.40705	21.13707	162	4.1	3.28	-1.46	-9.31
		163	20.91193	22.38748	21.15265	163	4.1	3.28	-1.46	-9.31
		164	20.91193	22.35812	21.15265	164	4.11	3.29	-1.46	-9.31
		165	20.89773	22.3092	21.15265	165	4.1	3.29	-1.46	-9.31
		166	20.86932	22.35812	21.1215	166	4.1	3.28	-1.47	-9.31
		167	20.8267	22.34834	21.05919	167	4.1	3.28	-1.47	-9.31
		168	20.8267	22.33855	21.04361	168	4.11	3.29	-1.46	-9.3
		169	20.8267	22.32877	21.07477	169	4.11	3.29	-1.45	-9.3
		170	20.84091	22.32877	21.04361	170	4.1	3.29	-1.46	-9.3
		171	20.8125	22.34834	21.02804	171	4.1	3.29	-1.46	-9.31
		172	20.78409	22.34834	21.01246	172	4.1	3.29	-1.46	-9.31

173	20.7983	22.33855	20.99688	173	4.1	3.29	-1.46	-9.31
174	20.8125	22.27984	20.98131	174	4.11	3.29	-1.46	-9.3
175	20.8267	22.27006	20.96573	175	4.11	3.29	-1.46	-9.3
176	20.85511	22.31898	20.99688	176	4.1	3.28	-1.47	-9.31
177	20.78409	22.27984	20.96573	177	4.1	3.28	-1.47	-9.31
178	20.74148	22.27984	20.96573	178	4.1	3.28	-1.47	-9.31
179	20.76989	22.27984	20.88785	179	4.1	3.28	-1.47	-9.31
180	20.8267	22.28963	20.82555	180	4.1	3.29	-1.46	-9.3
181	20.88352	22.27984	20.87227	181	4.11	3.29	-1.46	-9.3
182	20.84091	22.27006	20.80997	182	4.1	3.29	-1.46	-9.3
183	20.8125	22.26027	20.79439	183	4.11	3.29	-1.46	-9.3
184	20.7983	22.28963	20.77882	184	4.11	3.3	-1.45	-9.29
185	20.78409	22.23092	20.79439	185	4.11	3.3	-1.45	-9.29
186	20.7983	22.23092	20.80997	186	4.11	3.3	-1.45	-9.29
187	20.7983	22.26027	20.76324	187	4.11	3.3	-1.45	-9.29
188	20.78409	22.28963	20.76324	188	4.11	3.3	-1.45	-9.29
189	20.74148	22.2407	20.71651	189	4.11	3.3	-1.45	-9.29
190	20.76989	22.2407	20.68536	190	4.11	3.3	-1.45	-9.29
191	20.78409	22.25049	20.68536	191	4.11	3.31	-1.44	-9.29
192	20.75568	22.2407	20.66978	192	4.11	3.3	-1.45	-9.29
193	20.75568	22.2407	20.66978	193	4.11	3.3	-1.45	-9.29
194	20.74148	22.25049	20.63863	194	4.11	3.3	-1.45	-9.29
195	20.75568	22.26027	20.65421	195	4.11	3.3	-1.45	-9.29
196	20.74148	22.2407	20.65421	196	4.1	3.3	-1.45	-9.29
197	20.69886	22.20157	20.65421	197	4.1	3.31	-1.44	-9.28
198	20.71307	22.20157	20.5919	198	4.11	3.31	-1.44	-9.28
199	20.69886	22.21135	20.56075	199	4.1	3.31	-1.44	-9.29
200	20.67045	22.20157	20.5919	200	4.1	3.3	-1.45	-9.29
201	20.65625	22.19178	20.57632	201	4.09	3.3	-1.45	-9.29
202	20.71307	22.17221	20.51402	202	4.1	3.3	-1.45	-9.29
203	20.68466	22.17221	20.54517	203	4.1	3.3	-1.45	-9.29
204	20.64205	22.14286	20.51402	204	4.11	3.31	-1.44	-9.28
205	20.59943	22.16243	20.46729	205	4.11	3.31	-1.44	-9.27
206	20.64205	22.182	20.45171	206	4.11	3.31	-1.44	-9.28
207	20.69886	22.17221	20.40498	207	4.1	3.31	-1.44	-9.28
208	20.75568	22.16243	20.37383	208	4.1	3.31	-1.44	-9.28
209	20.68466	22.19178	20.35826	209	4.1	3.31	-1.44	-9.28
210	20.67045	22.20157	20.34268	210	4.1	3.31	-1.44	-9.28
211	20.67045	22.17221	20.37383	211	4.11	3.32	-1.43	-9.27
212	20.65625	22.15264	20.37383	212	4.1	3.31	-1.44	-9.28
213	20.67045	22.12329	20.34268	213	4.1	3.3	-1.45	-9.29
214	20.65625	22.14286	20.35826	214	4.11	3.31	-1.44	-9.28
215	20.64205	22.16243	20.38941	215	4.11	3.31	-1.44	-9.28
216	20.64205	22.15264	20.38941	216	4.11	3.32	-1.43	-9.27
217	20.65625	22.16243	20.37383	217	4.11	3.32	-1.43	-9.27

218	20.71307	22.20157	20.38941	218	4.11	3.32	-1.43	-9.27
219	20.68466	22.22114	20.37383	219	4.11	3.32	-1.43	-9.27
220	20.67045	22.19178	20.34268	220	4.11	3.32	-1.43	-9.27
221	20.69886	22.19178	20.29595	221	4.1	3.31	-1.44	-9.28
222	20.64205	22.15264	20.24922	222	4.1	3.31	-1.44	-9.28
223	20.62784	22.16243	20.24922	223	4.1	3.31	-1.44	-9.27
224	20.65625	22.12329	20.18692	224	4.11	3.31	-1.43	-9.27
225	20.62784	22.09393	20.20249	225	4.11	3.32	-1.43	-9.27
226	20.59943	22.06458	20.18692	226	4.11	3.32	-1.43	-9.27
227	20.61364	22.09393	20.24922	227	4.11	3.32	-1.43	-9.27
228	20.61364	22.08415	20.23364	228	4.11	3.32	-1.43	-9.27
229	20.62784	22.10372	20.20249	229	4.11	3.32	-1.43	-9.27
230	20.57102	22.19178	20.17134	230	4.11	3.32	-1.43	-9.27
231	20.59943	22.15264	20.17134	231	4.11	3.31	-1.44	-9.27
232	20.61364	22.09393	20.17134	232	4.11	3.31	-1.44	-9.27
233	20.59943	22.12329	20.14019	233	4.1	3.3	-1.45	-9.29
234	20.58523	22.1135	20.10903	234	4.11	3.31	-1.44	-9.27
235	20.5142	22.09393	20.07788	235	4.1	3.31	-1.44	-9.27
236	20.5142	22.13307	20.07788	236	4.11	3.32	-1.44	-9.27
237	20.58523	22.1135	20.07788	237	4.11	3.32	-1.43	-9.27
238	20.59943	22.06458	20.12461	238	4.11	3.32	-1.43	-9.27
239	20.57102	22.07436	20.14019	239	4.11	3.32	-1.43	-9.27
240	20.57102	22.08415	20.14019	240	4.11	3.32	-1.43	-9.26
241	20.55682	22.09393	20.06231	241	4.12	3.32	-1.43	-9.26
242	20.55682	22.10372	20.01558	242	4.12	3.33	-1.42	-9.25
243	20.55682	22.04501	20	243	4.12	3.33	-1.42	-9.25
244	20.57102	22.04501	19.96885	244	4.12	3.33	-1.42	-9.25
245	20.58523	22.06458	20.01558	245	4.12	3.33	-1.42	-9.25
246	20.54261	22.07436	20.01558	246	4.12	3.33	-1.42	-9.25
247	20.54261	22.03523	20.01558	247	4.11	3.32	-1.43	-9.25
248	20.52841	22.07436	19.95327	248	4.11	3.33	-1.42	-9.26
249	20.54261	22.09393	19.90654	249	4.12	3.33	-1.42	-9.25
250	20.5	22.06458	19.96885	250	4.11	3.32	-1.43	-9.25
251	20.54261	22.00587	19.93769	251	4.12	3.33	-1.42	-9.25
252	20.58523	22.02544	19.90654	252	4.11	3.33	-1.42	-9.25
253	20.55682	22.02544	19.95327	253	4.12	3.33	-1.42	-9.25
254	20.54261	22.03523	19.92212	254	4.11	3.33	-1.42	-9.25
255	20.52841	22.08415	19.93769	255	4.11	3.32	-1.42	-9.25
256	20.52841	22.12329	19.90654	256	4.12	3.33	-1.42	-9.25
257	20.5142	22.05479	19.93769	257	4.12	3.33	-1.42	-9.25
258	20.54261	22.03523	19.89097	258	4.13	3.34	-1.41	-9.25
259	20.5142	22.05479	19.89097	259	4.12	3.33	-1.42	-9.25
260	20.5142	22.05479	19.93769	260	4.13	3.34	-1.41	-9.25
261	20.54261	22.06458	19.92212	261	4.14	3.35	-1.4	-9.23
262	20.52841	22.03523	19.89097	262	4.13	3.34	-1.41	-9.24

263	20.45739	22.04501	19.82866	263	4.13	3.34	-1.41	-9.24
264	20.4858	22.04501	19.89097	264	4.13	3.34	-1.41	-9.24
265	20.4858	22.03523	19.92212	265	4.13	3.34	-1.41	-9.25
266	20.5	22.01566	19.89097	266	4.13	3.35	-1.41	-9.24
267	20.47159	22.04501	19.89097	267	4.13	3.34	-1.41	-9.25
268	20.4858	22.06458	19.90654	268	4.13	3.34	-1.41	-9.24
269	20.4858	22.06458	19.92212	269	4.13	3.35	-1.41	-9.24
270	20.4858	22.02544	19.92212	270	4.14	3.35	-1.4	-9.24

HigherRH_exp_10

Experiment type: Higher humidity experiment. This experiment consisted of just an empty petridish. The two humidity buffers were NaCl which have a RH of 75% at 0 degrees Celsius. One of the buffers is raised 15.25 cm off the chamber floor. The sample was raised 13.3 cm off the chamber floor. Chiller was set to - 15°C. Temperature around the sample was controlled by the chiller. The pressure ranged from 10-11.3 mbar. Three open sandwich bags of water ice were placed around the sample.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= atmosphere 3= humidity buffer 4= sample

Mass	Mass	RH				T				
Min.	Mass	Min.	Ch02	Ch03	Ch04	Min.	Ch01	Ch02	Ch03	Ch04
0	307.05	0	22.14773	26.55577	18.4891	0	10.62	5.73	-0.46	-8.06
1	311.04	1	21.33807	27.60274	20.43614	1	4.47	4.96	-0.77	-6.85
3	321.06	2	21.62216	28.63014	18.17757	2	-1.19	-0.89	-2.36	-9.65
5	319.87	3	20.55682	28.30724	15.79439	3	0.07	0.68	-2.44	-10.3
7	324.9	4	18.6108	26.97652	13.31776	4	1	2.09	-2.3	-10.26
9	324.18	5	16.36648	25.93933	10.34268	5	1.44	2.8	-2.22	-10.22
11	323.46	6	14.13636	25.51859	7.647975	6	2.42	3.52	-2.16	-10.06
13	323.16	7	12.6733	25.91977	6.323988	7	3.42	4.04	-2.1	-9.83
15	322.9	8	12.375	26.8591	6.183801	8	3.95	4.31	-2.06	-9.63
17	322.36	9	12.91477	27.91585	6.884735	9	4.13	4.44	-2.02	-9.5
19	322.34	10	13.66761	28.73777	7.71028	10	4.14	4.45	-1.98	-9.42
21	321.67	11	14.19318	29.33464	8.208723	11	4.15	4.46	-1.96	-9.38
23	321.04	12	14.49148	29.71624	8.535826	12	4.15	4.45	-1.95	-9.35
25	320.3	13	14.67614	30.02935	8.753894	13	4.16	4.46	-1.94	-9.32

27	319.99	14	14.76136	30.34247	8.894081	14	4.17	4.47	-1.92	-9.3
29	319.24	15	14.77557	30.62622	9.065421	15	4.16	4.46	-1.92	-9.3
31	318.89	16	14.76136	30.89041	9.221184	16	4.17	4.45	-1.91	-9.29
33	318.56	17	14.66193	31.11546	9.361371	17	4.16	4.43	-1.91	-9.28
35	317.71	18	14.5625	31.31115	9.470405	18	4.15	4.42	-1.91	-9.26
37	317.33	19	14.53409	31.45793	9.595016	19	4.15	4.41	-1.91	-9.25
39	317.46	20	14.53409	31.5362	9.735202	20	4.15	4.4	-1.9	-9.24
41	317.61	21	14.49148	31.56556	9.906542	21	4.14	4.38	-1.9	-9.24
43	316.82	22	14.40625	31.62427	10	22	4.15	4.38	-1.9	-9.22
45	316.63	23	14.37784	31.70254	10.01558	23	4.15	4.37	-1.9	-9.22
47	316.54	24	14.32102	31.74168	10.10903	24	4.14	4.35	-1.9	-9.22
49	316.42	25	14.29261	31.78082	10.31153	25	4.15	4.35	-1.9	-9.21
51	316.25	26	14.29261	31.84932	10.46729	26	4.13	4.33	-1.9	-9.2
53	316.66	27	14.2642	31.79061	10.5296	27	4.13	4.31	-1.9	-9.2
55	316.99	28	14.2358	31.72211	10.56075	28	4.13	4.3	-1.9	-9.2
57	317.02	29	14.22159	31.70254	10.62305	29	4.12	4.29	-1.9	-9.18
59	317.31	30	14.2358	31.7319	10.71651	30	4.14	4.3	-1.89	-9.17
61	317.88	31	14.27841	31.81018	10.79439	31	4.14	4.29	-1.89	-9.17
63	317.67	32	14.32102	31.78082	10.8567	32	4.14	4.28	-1.89	-9.17
65	318	33	14.36364	31.83953	10.98131	33	4.14	4.28	-1.89	-9.16
67	318.5	34	14.39205	31.86888	11.10592	34	4.13	4.26	-1.89	-9.16
69	319.61	35	14.40625	31.87867	11.1838	35	4.12	4.24	-1.89	-9.16
71	318.48	36	14.43466	31.89824	11.29283	36	4.13	4.25	-1.88	-9.15
73	312.67	37	14.46307	31.92759	11.35514	37	4.14	4.26	-1.87	-9.13
75	314.39	38	14.46307	32.00587	11.43302	38	4.15	4.26	-1.87	-9.12
77	315.14	39	14.49148	32.04501	11.49533	39	4.15	4.26	-1.87	-9.12
79	315.31	40	14.53409	32.04501	11.61994	40	4.14	4.25	-1.87	-9.12
81	315.16	41	14.5483	32.04501	11.69782	41	4.14	4.24	-1.87	-9.1
83	315.03	42	14.59091	31.9863	11.7757	42	4.13	4.23	-1.86	-9.1
85	314.99	43	14.61932	32.04501	11.88474	43	4.13	4.23	-1.86	-9.1
87	315.64	44	14.66193	32.05479	11.90031	44	4.14	4.24	-1.85	-9.09
89	315.82	45	14.67614	32.03523	11.96262	45	4.14	4.24	-1.85	-9.09
91	315.23	46	14.69034	32.00587	11.99377	46	4.15	4.24	-1.85	-9.09
93	316.03	47	14.71875	31.90802	11.07477	47	4.15	4.24	-1.84	-9.09
95	315.74	48	14.71875	31.92759	12.19626	48	4.15	4.24	-1.84	-9.08
97	316.33	49	14.69034	31.92759	12.08723	49	4.14	4.23	-1.83	-9.08
99	316.22	50	14.70455	31.91781	12.13396	50	4.15	4.24	-1.83	-9.08
101	315.95	51	14.70455	31.82975	12.18069	51	4.14	4.24	-1.82	-9.08
103	315.65	52	14.77557	31.89824	12.27414	52	4.15	4.24	-1.81	-9.07
105	315.48	53	14.78977	31.91781	12.3676	53	4.17	4.26	-1.8	-9.06
107	313.15	54	14.83239	32.01566	12.44548	54	4.16	4.26	-1.81	-9.08
109	312.82	55	14.8892	32.05479	12.49221	55	4.17	4.27	-1.8	-9.06
111	310.4	56	14.97443	31.99609	12.58567	56	4.17	4.27	-1.79	-9.06
113	310.87	57	14.97443	32.00587	12.58567	57	4.17	4.28	-1.79	-9.06
115	309.44	58	15.03125	32.01566	12.58567	58	4.17	4.28	-1.78	-9.05

117	310.24	59	15.04545	32.08415	12.64798	59	4.17	4.28	-1.77	-9.05
119	307.4	60	15.05966	32.10372	12.6324	60	4.17	4.28	-1.77	-9.05
121	308.66	61	15.07386	32.10372	12.66355	61	4.18	4.29	-1.76	-9.05
123	305.71	62	15.10227	32.09393	12.67913	62	4.19	4.3	-1.76	-9.06
125	307.21	63	15.1733	32.13307	12.77259	63	4.19	4.31	-1.76	-9.06
127	308.13	64	15.15909	32.14286	12.81931	64	4.19	4.32	-1.75	-9.05
129	308.06	65	15.1875	32.12329	12.81931	65	4.19	4.32	-1.75	-9.05
131	307.88	66	15.1875	32.13307	12.85047	66	4.18	4.31	-1.75	-9.06
133	304.92	67	15.21591	32.16243	12.92835	67	4.18	4.31	-1.75	-9.06
135	303.97	68	15.34375	32.21135	12.94393	68	4.18	4.31	-1.75	-9.06
137	305.5	69	15.35795	32.2407	12.97508	69	4.19	4.32	-1.74	-9.06
139	304.15	70	15.38636	32.25049	13.03738	70	4.21	4.35	-1.73	-9.04
141	305.11	71	15.44318	32.27984	13.11526	71	4.2	4.34	-1.73	-9.05
143	303.55	72	15.45739	32.3092	13.16199	72	4.21	4.36	-1.72	-9.05
145	303.86	73	15.45739	32.32877	13.17757	73	4.21	4.36	-1.71	-9.04
147	303.25	74	15.5	32.36791	13.16199	74	4.21	4.37	-1.7	-9.03
149	302.11	75	15.55682	32.40705	13.20872	75	4.22	4.37	-1.7	-9.03
		76	15.57102	32.40705	13.20872	76	4.22	4.38	-1.69	-9.03
		77	15.61364	32.38748	13.2866	77	4.23	4.4	-1.68	-9.01
		78	15.67045	32.4364	13.34891	78	4.24	4.41	-1.68	-9.01
		79	15.68466	32.51468	13.41121	79	4.25	4.42	-1.67	-9.01
		80	15.75568	32.48532	13.44237	80	4.25	4.43	-1.66	-9.01
		81	15.72727	32.49511	13.41121	81	4.26	4.44	-1.65	-9
		82	15.8125	32.51468	13.4891	82	4.26	4.45	-1.65	-8.99
		83	15.84091	32.5636	13.50467	83	4.25	4.44	-1.65	-9
		84	15.89773	32.58317	13.56698	84	4.25	4.44	-1.65	-9
		85	15.86932	32.5636	13.61371	85	4.24	4.44	-1.65	-9
		86	15.86932	32.57339	13.64486	86	4.24	4.44	-1.65	-9
		87	15.94034	32.61252	13.62928	87	4.24	4.45	-1.64	-8.99
		88	15.91193	32.60274	13.62928	88	4.25	4.46	-1.64	-8.98
		89	15.96875	32.65166	13.69159	89	4.26	4.48	-1.63	-8.98
		90	16.01136	32.63209	13.69159	90	4.27	4.49	-1.62	-8.97
		91	16.08239	32.65166	13.73832	91	4.28	4.51	-1.61	-8.96
		92	16.09659	32.68102	13.73832	92	4.28	4.51	-1.6	-8.95
		93	16.1108	32.68102	13.73832	93	4.3	4.53	-1.58	-8.94
		94	16.16761	32.72994	13.73832	94	4.31	4.56	-1.55	-8.92
		95	16.18182	32.76908	13.75389	95	4.31	4.58	-1.52	-8.9
		96	16.19602	32.7593	13.80062	96	4.33	4.6	-1.5	-8.89
		97	16.16761	32.71037	13.86293	97	4.34	4.62	-1.47	-8.87
		98	16.26705	32.74951	13.84735	98	4.34	4.62	-1.48	-8.88
		99	16.28125	32.73973	13.8785	99	4.35	4.64	-1.47	-8.88
		100	16.25284	32.76908	13.86293	100	4.34	4.63	-1.49	-8.9
		101	16.26705	32.818	13.89408	101	4.35	4.64	-1.48	-8.89
		102	16.28125	32.80822	13.98754	102	4.34	4.64	-1.49	-8.9
		103	16.32386	32.79843	14.06542	103	4.33	4.64	-1.5	-8.91

104	16.36648	32.84736	14.04984	104	4.32	4.63	-1.5	-8.91
105	16.40909	32.86693	13.97196	105	4.32	4.63	-1.5	-8.92
106	16.38068	32.89628	14.03427	106	4.31	4.62	-1.5	-8.92
107	16.39489	32.90607	14.04984	107	4.32	4.63	-1.5	-8.91
108	16.4233	32.83757	14.04984	108	4.31	4.63	-1.5	-8.91
109	16.46591	32.90607	14.04984	109	4.33	4.65	-1.49	-8.9
110	16.53693	32.93542	14.12773	110	4.33	4.66	-1.49	-8.9
111	16.53693	32.92564	14.12773	111	4.33	4.67	-1.48	-8.9
112	16.53693	32.92564	14.1433	112	4.34	4.68	-1.48	-8.89
113	16.59375	32.94521	14.15888	113	4.34	4.68	-1.47	-8.89
114	16.59375	33.00391	14.17445	114	4.33	4.69	-1.47	-8.89
115	16.63636	33.00391	14.19003	115	4.33	4.68	-1.47	-8.89
116	16.63636	33.0137	14.19003	116	4.33	4.69	-1.47	-8.88
117	16.66477	33.04305	14.22118	117	4.33	4.69	-1.46	-8.87
118	16.72159	33.09198	14.20561	118	4.34	4.7	-1.45	-8.86
119	16.75	33.13112	14.22118	119	4.34	4.71	-1.45	-8.86
120	16.75	33.18004	14.23676	120	4.35	4.72	-1.45	-8.85
121	16.77841	33.18004	14.29907	121	4.35	4.73	-1.45	-8.85
122	16.80682	33.18982	14.31464	122	4.35	4.73	-1.44	-8.85
123	16.82102	33.17025	14.42368	123	4.37	4.76	-1.42	-8.83
124	16.86364	33.16047	14.45483	124	4.36	4.76	-1.42	-8.83
125	16.89205	33.18982	14.45483	125	4.36	4.76	-1.41	-8.83
126	16.90625	33.20939	14.43925	126	4.37	4.77	-1.41	-8.82
127	16.92045	33.18004	14.37695	127	4.36	4.77	-1.4	-8.82
128	16.92045	33.20939	14.42368	128	4.37	4.78	-1.4	-8.82
129	16.93466	33.18004	14.43925	129	4.37	4.79	-1.4	-8.82
130	16.93466	33.17025	14.4704	130	4.38	4.8	-1.39	-8.81
131	16.93466	33.19961	14.50156	131	4.38	4.8	-1.39	-8.82
132	17.01989	33.23875	14.45483	132	4.38	4.81	-1.39	-8.82
133	17.0483	33.27789	14.43925	133	4.39	4.81	-1.38	-8.81
134	17.0767	33.2681	14.48598	134	4.39	4.82	-1.38	-8.81
135	17.09091	33.24853	14.48598	135	4.39	4.82	-1.37	-8.82
136	17.10511	33.20939	14.53271	136	4.38	4.82	-1.37	-8.82
137	17.0767	33.22896	14.51713	137	4.38	4.83	-1.37	-8.81
138	17.0625	33.31703	14.51713	138	4.39	4.84	-1.36	-8.79
139	17.13352	33.30724	14.57944	139	4.4	4.86	-1.35	-8.79
140	17.13352	33.33659	14.57944	140	4.4	4.86	-1.35	-8.79
141	17.11932	33.32681	14.54829	141	4.42	4.88	-1.33	-8.77
142	17.16193	33.38552	14.62617	142	4.43	4.89	-1.32	-8.76
143	17.16193	33.40509	14.68847	143	4.43	4.9	-1.32	-8.76
144	17.23295	33.35616	14.64174	144	4.43	4.91	-1.31	-8.76
145	17.26136	33.35616	14.71963	145	4.43	4.91	-1.31	-8.75
146	17.27557	33.38552	14.7352	146	4.43	4.91	-1.3	-8.75
147	17.26136	33.36595	14.70405	147	4.43	4.92	-1.29	-8.75
148	17.24716	33.40509	14.70405	148	4.44	4.93	-1.28	-8.74

149 17.31818 33.40509 14.62617 149 4.44 4.93 -1.28 -8.73

HigherRH_exp_11

Experiment type: Higher humidity experiment. This experiment consisted of just an empty petridish. The two humidity buffers were NaCl which have a RH of 75% at 0 degrees Celsius. One of the buffers is raised 15.25 cm off the chamber floor. The sample was raised 13.3 cm off the chamber floor. Chiller was set to - 15°C. Temperature around the sample was controlled by the chiller. The pressure ranged from 10-11.3 mbar. One open gallon sized bag and three open sandwich bags of water ice were placed around the sample.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= atmosphere 3= humidity buffer 4= sample

Mass Min.	Mass	RH Min.	Ch02	Ch03	Ch04	T Min.	Ch01	Ch02	Ch03	Ch04
0	244.12	0	22.43182	19.00196	15.07788	0	21.78	6.05	-1.2	-9.52
1	243.75	1	22.13352	19.59883	13.17757	1	21.93	5.27	-1.73	-8.76
3	243.54	2	21.1108	18.51272	11.29283	2	21.75	-0.1	-2.82	-10.77
5	243.45	3	20.05966	17.51468	9.610592	3	21.8	1.24	-2.74	-11.33
7	243.42	4	19.02273	17.04501	7.803738	4	21.81	1.73	-2.62	-11.56
9	243.46	5	17.73011	16.69276	6.012461	5	21.8	1.83	-2.55	-11.68
11	243.51	6	16.77841	16.6047	4.890966	6	21.79	1.98	-2.48	-11.75
13	243.5	7	17.16193	17.03523	4.82866	7	21.76	2.76	-2.38	-11.73
15	243.47	8	18.71023	18.1409	6.028037	8	21.75	3.18	-2.3	-11.69
17	243.47	9	20.5142	19.51076	7.570093	9	21.73	3.43	-2.23	-11.63
19	243.51	10	21.66477	20.40117	8.504673	10	21.72	3.49	-2.19	-11.58
21	243.51	11	22.31818	20.78278	9.11215	11	21.73	3.43	-2.16	-11.56
23	243.47	12	22.75852	21.00783	9.548287	12	21.72	3.39	-2.15	-11.54
25	243.48	13	23.07102	21.1546	9.953271	13	21.72	3.35	-2.13	-11.52
27	243.51	14	23.35511	21.22309	10.29595	14	21.72	3.34	-2.12	-11.51
29	243.51	15	23.6108	21.24266	10.5919	15	21.73	3.32	-2.11	-11.52
31	243.47	16	23.88068	21.2818	10.919	16	21.72	3.29	-2.11	-11.52
33	243.48	17	24.12216	21.30137	11.24611	17	21.75	3.3	-2.08	-11.49
35	243.48	18	24.27841	21.29159	11.5109	18	21.78	3.31	-2.03	-11.46
37	243.51	19	24.46307	21.34051	11.7757	19	21.81	3.31	-2	-11.44
39	243.51	20	24.67614	21.41879	11.99377	20	21.84	3.32	-1.97	-11.41

41	243.49	21	24.84659	21.42857	12.22741	21	21.85	3.32	-1.95	-11.38
43	243.48	22	25.05966	22.28963	12.47664	22	21.86	3.33	-1.94	-11.38
45	243.52	23	25.27273	22.45597	12.6947	23	21.87	3.34	-1.93	-11.38
47	243.52	24	25.45739	21.62427	12.94393	24	21.89	3.35	-1.91	-11.35
49	243.48	25	25.69886	21.49706	13.20872	25	21.9	3.35	-1.9	-11.35
51	243.48	26	25.91193	21.48728	13.45794	26	21.91	3.35	-1.9	-11.35
53	243.49	27	26.09659	21.48728	13.64486	27	21.91	3.33	-1.91	-11.35
55	243.52	28	26.29545	21.48728	13.80062	28	21.91	3.32	-1.91	-11.34
57	243.52	29	26.46591	21.5362	13.97196	29	21.91	3.33	-1.91	-11.35
59	243.52	30	26.57955	21.57534	14.15888	30	21.9	3.31	-1.93	-11.36
61	243.49	31	26.65057	21.62427	14.34579	31	21.88	3.3	-1.95	-11.37
63	243.49	32	26.83523	21.67319	14.53271	32	21.85	3.26	-1.99	-11.39
65	243.52	33	26.97727	21.64384	14.7352	33	21.82	3.24	-2.02	-11.42
67	243.52	34	27.09091	21.70254	14.89097	34	21.8	3.2	-2.05	-11.43
69	243.49	35	27.19034	21.74168	15.04673	35	21.77	3.17	-2.08	-11.44
71	243.49	36	27.34659	21.7319	15.18692	36	21.75	3.13	-2.11	-11.47
73	243.52	37	27.44602	21.7319	15.2648	37	21.73	3.11	-2.14	-11.48
75	243.52	38	27.51705	21.78082	15.37383	38	21.71	3.08	-2.16	-11.48
77	243.48	39	27.6733	21.79061	15.51402	39	21.7	3.08	-2.18	-11.48
79	243.48	40	27.80114	21.80039	15.63863	40	21.68	3.06	-2.2	-11.5
81	243.49	41	27.88636	21.81018	15.76324	41	21.67	3.06	-2.21	-11.51
83	243.52	42	27.92898	21.82975	15.8567	42	21.66	3.05	-2.22	-11.5
85	243.52	43	27.9858	21.84932	15.95016	43	21.65	3.05	-2.23	-11.5
87	243.48	44	28.02841	21.87867	16.02804	44	21.64	3.02	-2.25	-11.51
89	243.48	45	28.07102	21.86888	16.09034	45	21.63	3.01	-2.25	-11.5
91	243.48	46	28.11364	21.87867	16.15265	46	21.63	3.01	-2.26	-11.5
93	243.51	47	28.14205	21.84932	16.23053	47	21.62	3	-2.27	-11.51
95	243.51	48	28.25568	21.89824	16.33956	48	21.6	3	-2.28	-11.52
97	243.48	49	28.24148	21.91781	16.43302	49	21.6	3.01	-2.29	-11.5
99	243.48	50	28.19886	21.93738	16.47975	50	21.6	3.01	-2.29	-11.5
101	243.52	51	28.12784	21.93738	16.52648	51	21.59	3.01	-2.3	-11.51
103	243.52	52	28.11364	21.91781	16.57321	52	21.59	3.02	-2.31	-11.5
105	243.51	53	28.12784	21.6047	16.60436	53	21.59	3.01	-2.31	-11.49
107	243.48	54	28.17045	21.74168	16.66667	54	21.58	3	-2.32	-11.51
109	243.48	55	28.21307	21.92759	16.66667	55	21.58	3	-2.33	-11.51
111	243.48	56	28.19886	21.94716	16.68224	56	21.58	3	-2.33	-11.5
113	243.51	57	28.19886	21.96673	16.76012	57	21.58	3	-2.33	-11.49
115	243.51	58	28.15625	22.01566	16.88474	58	21.58	3.01	-2.33	-11.5
117	243.48	59	28.19886	22.01566	16.88474	59	21.58	3.03	-2.33	-11.49
119	243.48	60	28.22727	22.01566	16.96262	60	21.57	3.03	-2.33	-11.48
121	243.51	61	28.22727	22.06458	17.02492	61	21.57	3.03	-2.34	-11.48
123	243.51	62	28.19886	22.02544	17.07165	62	21.57	3.05	-2.33	-11.49
125	243.48	63	28.18466	22.04501	17.07165	63	21.58	3.05	-2.34	-11.48
127	243.48	64	28.18466	22.03523	17.0405	64	21.57	3.04	-2.34	-11.48
129	243.52	65	28.19886	22.04501	17.05607	65	21.57	3.04	-2.34	-11.49

131	243.51	66	28.18466	22.06458	17.05607	66	21.57	3.05	-2.34	-11.49
133	243.51	67	28.19886	22.06458	17.08723	67	21.57	3.06	-2.34	-11.48
135	243.48	68	28.15625	22.09393	17.16511	68	21.57	3.07	-2.35	-11.47
137	243.48	69	28.17045	22.10372	17.19626	69	21.56	3.08	-2.35	-11.48
139	243.51	70	28.12784	22.12329	17.22741	70	21.56	3.08	-2.36	-11.48
141	243.52	71	28.12784	22.13307	17.22741	71	21.56	3.08	-2.36	-11.47
143	243.52	72	28.11364	22.16243	17.22741	72	21.56	3.08	-2.36	-11.46
145	243.48	73	28.14205	22.15264	17.27414	73	21.56	3.08	-2.36	-11.47
147	243.48	74	28.11364	22.14286	17.33645	74	21.56	3.09	-2.36	-11.46
149	243.52	75	28.12784	22.17221	17.3053	75	21.56	3.09	-2.36	-11.45
151	243.52	76	28.17045	22.16243	17.28972	76	21.55	3.1	-2.37	-11.46
153	243.48	77	28.14205	22.19178	17.33645	77	21.56	3.12	-2.36	-11.47
155	243.49	78	28.07102	22.17221	17.33645	78	21.55	3.13	-2.37	-11.46
157	243.49	79	28.07102	22.21135	17.3053	79	21.55	3.13	-2.37	-11.45
159	243.52	80	28.09943	22.20157	17.32087	80	21.55	3.14	-2.37	-11.45
161	243.52	81	28.11364	22.2407	17.3676	81	21.55	3.14	-2.36	-11.46
163	243.52	82	28.11364	22.25049	17.41433	82	21.54	3.13	-2.37	-11.45
165	243.49	83	28.14205	22.27006	17.44548	83	21.54	3.14	-2.37	-11.44
167	243.49	84	28.12784	22.27006	17.42991	84	21.54	3.14	-2.36	-11.44
169	243.52	85	28.17045	22.25049	17.39875	85	21.53	3.14	-2.37	-11.45
171	243.52	86	28.09943	22.26027	17.47664	86	21.53	3.16	-2.37	-11.44
173	243.52	87	28.08523	22.27006	17.50779	87	21.53	3.17	-2.37	-11.43
175	243.49	88	28.11364	22.25049	17.46106	88	21.53	3.17	-2.37	-11.43
177	243.49	89	28.14205	22.2407	17.46106	89	21.52	3.18	-2.37	-11.44
179	243.49	90	28.15625	22.27006	17.49221	90	21.53	3.19	-2.36	-11.41
181	243.52	91	28.09943	22.25049	17.53894	91	21.52	3.19	-2.37	-11.41
183	243.52	92	28.08523	22.26027	17.60125	92	21.53	3.19	-2.36	-11.42
185	243.48	93	28.0142	22.25049	17.53894	93	21.52	3.19	-2.36	-11.42
187	243.49	94	28.05682	22.27006	17.49221	94	21.52	3.2	-2.36	-11.41
189	243.52	95	28.07102	22.28963	17.50779	95	21.52	3.22	-2.36	-11.42
191	243.52	96	28.04261	22.28963	17.47664	96	21.52	3.22	-2.36	-11.44
193	243.52	97	28.02841	22.3092	17.52336	97	21.52	3.23	-2.36	-11.43
195	243.48	98	28.04261	19.68689	17.57009	98	21.51	3.24	-2.36	-11.43
197	243.48	99	27.9858	22.32877	17.53894	99	21.52	3.25	-2.36	-11.44
199	243.52	100	27.9858	22.34834	17.55452	100	21.52	3.26	-2.35	-11.43
201	243.52	101	28	22.32877	17.50779	101	21.52	3.25	-2.36	-11.43
203	243.48	102	27.91477	22.3092	17.50779	102	21.52	3.25	-2.36	-11.44
205	243.49	103	27.85795	22.34834	17.53894	103	21.52	3.27	-2.35	-11.45
207	243.49	104	27.88636	22.32877	17.55452	104	21.52	3.26	-2.36	-11.45
209	243.52	105	27.87216	22.32877	17.55452	105	21.52	3.28	-2.36	-11.45
211	243.53	106	27.81534	22.35812	17.58567	106	21.52	3.3	-2.35	-11.46
213	243.52	107	27.84375	22.36791	17.58567	107	21.52	3.3	-2.35	-11.46
215	243.49	108	27.80114	22.36791	17.58567	108	21.52	3.31	-2.36	-11.45
217	243.49	109	27.6733	22.37769	17.61682	109	21.52	3.31	-2.35	-11.46
219	243.53	110	27.6875	22.32877	17.60125	110	21.51	3.32	-2.36	-11.47

221	243.52	111	27.65909	22.31898	17.60125	111	21.51	3.32	-2.36	-11.46
223	243.48	112	27.64489	23.18004	17.53894	112	21.51	3.32	-2.36	-11.46
225	243.49	113	27.55966	22.63209	17.50779	113	21.51	3.32	-2.36	-11.47
227	243.53	114	27.53125	22.42661	17.58567	114	21.5	3.32	-2.37	-11.47
229	243.52	115	27.44602	22.37769	17.58567	115	21.5	3.33	-2.37	-11.47
231	243.52	116	27.43182	22.33855	17.57009	116	21.5	3.34	-2.36	-11.48
233	243.49	117	27.41761	22.35812	17.60125	117	21.51	3.36	-2.36	-11.47
235	243.49	118	27.3608	22.35812	17.53894	118	21.51	3.37	-2.36	-11.46
237	243.52	119	27.40341	22.33855	17.52336	119	21.52	3.39	-2.35	-11.46
239	243.52	120	27.41761	22.31898	17.42991	120	21.51	3.37	-2.36	-11.47
241	243.52	121	27.3892	22.27984	17.46106	121	21.51	3.37	-2.36	-11.46
243	243.48	122	27.3892	22.29941	17.44548	122	21.51	3.37	-2.37	-11.47
245	243.48	123	27.27557	22.3092	17.42991	123	21.51	3.39	-2.37	-11.48
247	243.52	124	27.27557	22.27006	17.47664	124	21.5	3.39	-2.37	-11.48
249	243.52	125	27.23295	22.28963	17.53894	125	21.5	3.41	-2.37	-11.47
251	243.48	126	27.17614	22.29941	17.46106	126	21.5	3.4	-2.37	-11.49
253	243.48	127	27.16193	22.31898	17.47664	127	21.5	3.41	-2.37	-11.5
255	243.48	128	27.17614	22.31898	17.57009	128	21.5	3.42	-2.37	-11.49
257	243.52	129	27.16193	22.33855	17.60125	129	21.5	3.42	-2.37	-11.5
259	243.52	130	27.13352	22.27006	17.58567	130	21.49	3.42	-2.38	-11.51
261	243.47	131	27.13352	22.25049	17.52336	131	21.49	3.42	-2.38	-11.51
263	243.48	132	27.09091	22.27006	17.44548	132	21.5	3.43	-2.37	-11.51
265	243.48	133	27.11932	22.29941	17.44548	133	21.49	3.44	-2.37	-11.51
267	243.52	134	27.11932	22.31898	17.47664	134	21.49	3.46	-2.37	-11.51
269	243.52	135	27.03409	22.28963	17.46106	135	21.49	3.45	-2.38	-11.51
271	243.48	136	27.0483	22.3092	17.44548	136	21.49	3.47	-2.37	-11.51
273	243.48	137	27.09091	22.33855	17.46106	137	21.49	3.47	-2.37	-11.52
275	243.49	138	27.03409	22.3092	17.49221	138	21.49	3.48	-2.37	-11.52
277	243.52	139	27.01989	22.26027	17.46106	139	21.49	3.47	-2.37	-11.53
279	243.52	140	26.99148	22.26027	17.47664	140	21.48	3.46	-2.38	-11.54
		141	26.99148	22.29941	17.50779	141	21.49	3.47	-2.38	-11.53
		142	27.01989	22.29941	17.50779	142	21.49	3.48	-2.38	-11.53
		143	26.99148	22.29941	17.46106	143	21.49	3.5	-2.37	-11.52
		144	27.00568	22.35812	17.46106	144	21.49	3.51	-2.38	-11.53
		145	27.0483	22.32877	17.50779	145	21.49	3.52	-2.37	-11.52
		146	27.00568	22.34834	17.55452	146	21.49	3.52	-2.38	-11.52
		147	26.94886	22.34834	17.57009	147	21.49	3.53	-2.37	-11.52
		148	26.96307	22.33855	17.50779	148	21.49	3.52	-2.37	-11.52
		149	26.93466	22.3092	17.49221	149	21.49	3.52	-2.37	-11.52
		150	26.94886	22.33855	17.55452	150	21.49	3.53	-2.38	-11.52
		151	26.90625	22.38748	17.57009	151	21.49	3.53	-2.37	-11.51
		152	26.94886	22.38748	17.58567	152	21.5	3.56	-2.36	-11.51
		153	26.90625	22.36791	17.58567	153	21.5	3.57	-2.36	-11.5
		154	26.87784	22.34834	17.53894	154	21.5	3.57	-2.36	-11.5
		155	26.89205	22.39726	17.52336	155	21.5	3.58	-2.36	-11.5

156	26.86364	22.38748	17.50779	156	21.5	3.58	-2.36	-11.5
157	26.82102	22.36791	17.44548	157	21.5	3.58	-2.36	-11.5
158	26.84943	22.37769	17.52336	158	21.5	3.58	-2.36	-11.51
159	26.89205	22.40705	17.52336	159	21.5	3.58	-2.36	-11.5
160	26.86364	22.38748	17.58567	160	21.5	3.59	-2.35	-11.5
161	26.77841	22.34834	17.52336	161	21.49	3.59	-2.36	-11.51
162	26.79261	22.39726	17.58567	162	21.49	3.59	-2.36	-11.51
163	26.82102	22.42661	17.58567	163	21.49	3.6	-2.37	-11.51
164	26.83523	22.39726	17.60125	164	21.49	3.61	-2.37	-11.51
165	26.79261	22.42661	17.53894	165	21.49	3.62	-2.36	-11.5
166	26.80682	22.4364	17.52336	166	21.49	3.62	-2.36	-11.5
167	26.77841	22.42661	17.53894	167	21.49	3.63	-2.36	-11.5
168	26.7642	22.42661	17.55452	168	21.49	3.63	-2.36	-11.5
169	26.7358	22.39726	17.53894	169	21.49	3.62	-2.36	-11.49
170	26.7642	22.42661	17.55452	170	21.49	3.62	-2.36	-11.48
171	26.72159	22.45597	17.55452	171	21.49	3.62	-2.36	-11.47
172	26.7642	22.40705	17.58567	172	21.49	3.64	-2.35	-11.47
173	26.75	22.41683	17.6324	173	21.49	3.65	-2.35	-11.46
174	26.79261	22.47554	17.64798	174	21.49	3.65	-2.35	-11.46
175	26.79261	22.51468	17.6324	175	21.48	3.66	-2.35	-11.47
176	26.7642	22.48532	17.66355	176	21.48	3.66	-2.35	-11.46
177	26.7642	22.52446	17.6947	177	21.49	3.67	-2.34	-11.46
178	26.7642	22.51468	17.71028	178	21.49	3.68	-2.34	-11.47
179	26.75	22.53425	17.6947	179	21.49	3.67	-2.35	-11.47
180	26.72159	22.51468	17.60125	180	21.49	3.67	-2.35	-11.47
181	26.72159	22.51468	17.61682	181	21.49	3.67	-2.34	-11.47
182	26.7358	22.48532	17.6324	182	21.48	3.67	-2.35	-11.48
183	26.75	22.49511	17.61682	183	21.48	3.67	-2.35	-11.48
184	26.75	22.51468	17.6324	184	21.49	3.7	-2.34	-11.48
185	26.7358	22.53425	17.67913	185	21.48	3.69	-2.35	-11.49
186	26.69318	22.5636	17.66355	186	21.48	3.7	-2.34	-11.48
187	26.67898	22.60274	17.67913	187	21.48	3.71	-2.34	-11.47
188	26.70739	22.55382	17.66355	188	21.49	3.72	-2.33	-11.48
189	26.70739	22.53425	17.6324	189	21.48	3.7	-2.34	-11.48
190	26.72159	22.59295	17.61682	190	21.48	3.71	-2.33	-11.47
191	26.66477	22.51468	17.66355	191	21.48	3.7	-2.33	-11.46
192	26.65057	22.50489	17.6947	192	21.48	3.71	-2.33	-11.47
193	26.66477	22.54403	17.67913	193	21.48	3.73	-2.34	-11.46
194	26.65057	22.47554	17.6324	194	21.48	3.73	-2.33	-11.46
195	26.67898	22.53425	17.64798	195	21.48	3.74	-2.33	-11.46
196	26.69318	22.51468	17.6947	196	21.49	3.76	-2.32	-11.46
197	26.67898	22.5636	17.75701	197	21.48	3.75	-2.33	-11.47
198	26.65057	22.5636	17.75701	198	21.47	3.74	-2.33	-11.49
199	26.59375	22.5636	17.64798	199	21.47	3.73	-2.33	-11.49
200	26.62216	22.53425	17.6947	200	21.47	3.73	-2.33	-11.5

201	26.63636	22.47554	17.6324	201	21.47	3.73	-2.33	-11.5
202	26.65057	22.47554	17.61682	202	21.47	3.75	-2.34	-11.48
203	26.69318	22.46575	17.61682	203	21.47	3.77	-2.33	-11.48
204	26.69318	22.53425	17.67913	204	21.46	3.75	-2.34	-11.49
205	26.70739	22.59295	17.6324	205	21.46	3.76	-2.34	-11.48
206	26.63636	22.57339	17.67913	206	21.46	3.77	-2.33	-11.47
207	26.63636	22.54403	17.66355	207	21.46	3.76	-2.34	-11.49
208	26.60795	22.54403	17.71028	208	21.46	3.76	-2.34	-11.48
209	26.59375	22.55382	17.77259	209	21.46	3.76	-2.34	-11.47
210	26.62216	22.53425	17.6947	210	21.46	3.76	-2.34	-11.48
211	26.60795	22.51468	17.67913	211	21.47	3.77	-2.33	-11.48
212	26.59375	22.55382	17.71028	212	21.46	3.77	-2.34	-11.47
213	26.55114	22.57339	17.64798	213	21.47	3.79	-2.33	-11.47
214	26.49432	22.54403	17.6947	214	21.47	3.79	-2.33	-11.48
215	26.49432	22.48532	17.71028	215	21.46	3.79	-2.33	-11.47
216	26.52273	22.55382	17.78816	216	21.47	3.81	-2.33	-11.46
217	26.49432	22.60274	17.74143	217	21.47	3.81	-2.32	-11.46
218	26.55114	22.59295	17.71028	218	21.47	3.8	-2.32	-11.47
219	26.53693	22.5636	17.64798	219	21.47	3.8	-2.31	-11.46
220	26.52273	22.5636	17.66355	220	21.47	3.81	-2.31	-11.45
221	26.53693	22.53425	17.64798	221	21.47	3.82	-2.31	-11.46
222	26.57955	22.54403	17.60125	222	21.48	3.83	-2.31	-11.46
223	26.53693	22.57339	17.72586	223	21.48	3.83	-2.3	-11.44
224	26.52273	22.60274	17.75701	224	21.48	3.85	-2.3	-11.43
225	26.55114	22.58317	17.74143	225	21.48	3.84	-2.3	-11.44
226	26.56534	22.61252	17.75701	226	21.47	3.84	-2.31	-11.44
227	26.52273	22.61252	17.72586	227	21.46	3.82	-2.31	-11.43
228	26.48011	22.61252	17.78816	228	21.47	3.83	-2.31	-11.43
229	26.53693	22.59295	17.71028	229	21.47	3.83	-2.3	-11.45
230	26.52273	22.61252	17.74143	230	21.47	3.83	-2.3	-11.45
231	26.55114	22.62231	17.72586	231	21.47	3.85	-2.3	-11.44
232	26.50852	22.61252	17.6947	232	21.47	3.85	-2.3	-11.43
233	26.50852	22.64188	17.71028	233	21.47	3.86	-2.3	-11.44
234	26.52273	22.65166	17.75701	234	21.47	3.87	-2.3	-11.44
235	26.52273	22.65166	17.81931	235	21.46	3.86	-2.3	-11.43
236	26.49432	22.59295	17.78816	236	21.46	3.85	-2.3	-11.45
237	26.4233	22.58317	17.77259	237	21.46	3.85	-2.31	-11.46
238	26.4517	22.58317	17.83489	238	21.46	3.85	-2.3	-11.47
239	26.39489	22.59295	17.75701	239	21.46	3.85	-2.31	-11.48
240	26.38068	22.59295	17.77259	240	21.46	3.85	-2.31	-11.49
241	26.38068	22.59295	17.75701	241	21.46	3.87	-2.3	-11.5
242	26.39489	22.59295	17.75701	242	21.46	3.88	-2.3	-11.49
243	26.40909	22.61252	17.74143	243	21.46	3.88	-2.29	-11.47
244	26.4375	22.58317	17.80374	244	21.47	3.9	-2.29	-11.47
245	26.4233	22.55382	17.81931	245	21.46	3.89	-2.29	-11.48

246	26.39489	23.17025	17.78816	246	21.47	3.89	-2.29	-11.47
247	26.38068	23.1409	17.80374	247	21.47	3.88	-2.29	-11.46
248	26.40909	22.76908	17.81931	248	21.47	3.89	-2.29	-11.46
249	26.4517	22.66145	17.78816	249	21.47	3.89	-2.29	-11.46
250	26.4517	22.61252	17.6947	250	21.47	3.9	-2.28	-11.44
251	26.4233	22.65166	17.66355	251	21.47	3.91	-2.28	-11.43
252	26.4233	22.64188	17.71028	252	21.48	3.92	-2.28	-11.44
253	26.4233	22.63209	17.75701	253	21.47	3.92	-2.27	-11.43
254	26.38068	22.60274	17.77259	254	21.47	3.93	-2.26	-11.41
255	26.39489	22.66145	17.75701	255	21.47	3.94	-2.26	-11.41
256	26.39489	22.64188	17.75701	256	21.47	3.93	-2.26	-11.42
257	26.39489	22.65166	17.77259	257	21.47	3.93	-2.26	-11.41
258	26.40909	22.66145	17.80374	258	21.47	3.92	-2.26	-11.39
259	26.39489	22.71037	17.75701	259	21.47	3.92	-2.27	-11.4
260	26.39489	22.6908	17.77259	260	21.47	3.93	-2.27	-11.41
261	26.38068	22.72016	17.78816	261	21.48	3.94	-2.26	-11.4
262	26.33807	22.67123	17.80374	262	21.48	3.96	-2.25	-11.39
263	26.38068	22.64188	17.81931	263	21.48	3.96	-2.25	-11.41
264	26.35227	22.65166	17.81931	264	21.47	3.96	-2.25	-11.43
265	26.35227	22.6908	17.78816	265	21.47	3.96	-2.25	-11.44
266	26.39489	22.65166	17.74143	266	21.47	3.95	-2.25	-11.43
267	26.36648	22.66145	17.72586	267	21.46	3.94	-2.25	-11.41
268	26.39489	22.67123	17.77259	268	21.46	3.95	-2.25	-11.41
269	26.36648	22.63209	17.77259	269	21.45	3.94	-2.26	-11.42
270	26.35227	22.67123	17.83489	270	21.46	3.96	-2.25	-11.41
271	26.33807	22.66145	17.86604	271	21.46	3.96	-2.25	-11.39
272	26.35227	22.65166	17.80374	272	21.46	3.96	-2.25	-11.41
273	26.36648	22.64188	17.81931	273	21.47	3.98	-2.24	-11.41
274	26.40909	22.66145	17.85047	274	21.49	4.01	-2.21	-11.37
275	26.40909	22.70059	17.86604	275	21.51	4.03	-2.18	-11.35
276	26.32386	22.71037	17.85047	276	21.55	4.07	-2.14	-11.33
277	26.30966	22.71037	17.86604	277	21.59	4.11	-2.09	-11.3
278	26.32386	22.6908	17.8972	278	21.62	4.16	-2.05	-11.25

HigherRH_exp_12

Experiment type: Higher humidity experiment. This experiment consisted of just an empty petridish. The two humidity buffers were LiCl which have a RH of 11.31% at 0 degrees Celsius. One of the buffers is raised 15.25 cm off the chamber floor. The sample was raised 13.3 cm off the chamber floor. Chiller was set to - 15°C. Temperature around the sample was controlled by

the chiller. The pressure ranged from 10-11.3 mbar. Three open sandwich bags of water ice were placed around the sample.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= atmosphere 3= humidity buffer 4= sample

Mass		RH				T				
Min.	Mass	Min.	Ch02	Ch03	Ch04	Min.	Ch01	Ch02	Ch03	Ch04
0	246.56	0	23.3125	20.4501	20.62305	0	4.81	5.52	0.05	-9.04
1	246.17	1	23.11364	22.33855	19.93769	1	5.17	5.73	-0.56	-7.65
3	245.91	2	23.83807	23.44423	18.78505	2	-1.28	-1.57	-3.22	-10.14
5	245.8	3	25.05966	21.91781	16.66667	3	-0.15	-0.35	-3.04	-11.09
7	245.84	4	23.79545	18.29746	14.06542	4	0.91	1.25	-2.47	-11.05
9	245.86	5	21.40909	15.74364	12.00935	5	1.16	1.87	-2.14	-11.01
11	245.89	6	18.75284	13.80626	9.984424	6	1.84	2.54	-1.85	-10.91
13	245.84	7	16.125	12.37769	7.866044	7	2.89	3.19	-1.5	-10.69
15	245.85	8	14.2642	11.63405	6.35514	8	3.5	3.52	-1.27	-10.52
17	245.86	9	13.52557	11.29159	5.685358	9	3.75	3.72	-1.09	-10.39
19	245.9	10	13.76705	11.409	5.732087	10	3.76	3.72	-1.01	-10.33
21	245.89	11	14.29261	11.68297	6.012461	11	3.75	3.71	-0.96	-10.3
23	245.89	12	14.60511	11.87867	6.199377	12	3.73	3.69	-0.93	-10.27
25	245.85	13	14.61932	11.93738	6.308411	13	3.73	3.69	-0.9	-10.24
27	245.86	14	14.50568	11.95695	6.401869	14	3.71	3.68	-0.9	-10.23
29	245.86	15	14.39205	11.89824	6.479751	15	3.71	3.68	-0.89	-10.22
31	245.89	16	14.25	11.92759	6.604361	16	3.7	3.66	-0.88	-10.21
33	245.89	17	14.05114	11.91781	6.666667	17	3.69	3.65	-0.87	-10.19
35	245.89	18	13.9517	11.88845	6.806854	18	3.69	3.65	-0.86	-10.18
37	245.86	19	13.85227	11.88845	6.962617	19	3.68	3.62	-0.86	-10.18
39	245.86	20	13.72443	11.95695	7.024922	20	3.66	3.61	-0.85	-10.17
41	245.89	21	13.59659	11.95695	7.149533	21	3.66	3.6	-0.84	-10.15
43	245.89	22	13.56818	11.95695	7.305296	22	3.66	3.59	-0.84	-10.14
45	245.89	23	13.53977	11.90802	7.41433	23	3.67	3.6	-0.82	-10.13
47	245.85	24	13.48295	11.90802	7.554517	24	3.67	3.59	-0.81	-10.11
49	245.85	25	13.49716	11.90802	7.679128	25	3.67	3.59	-0.8	-10.1
51	245.9	26	13.52557	11.94716	7.772586	26	3.67	3.59	-0.79	-10.1
53	245.89	27	13.45455	11.97652	7.834891	27	3.68	3.61	-0.78	-10.08
55	245.89	28	13.45455	11.99609	7.928349	28	3.66	3.58	-0.78	-10.07
57	245.86	29	13.48295	12.04501	8.068536	29	3.66	3.57	-0.78	-10.06
59	245.86	30	13.55398	12.07436	8.17757	30	3.66	3.57	-0.77	-10.06
61	245.89	31	13.6392	12.1135	8.271028	31	3.66	3.57	-0.77	-10.05
63	245.89	32	13.75284	12.1135	8.364486	32	3.66	3.56	-0.76	-10.03

65	245.89	33	13.79545	12.17221	8.442368	33	3.66	3.56	-0.76	-10.03
67	245.89	34	13.85227	12.2407	8.551402	34	3.65	3.56	-0.75	-10.03
69	245.86	35	13.89489	12.26027	8.660436	35	3.65	3.56	-0.76	-10.03
71	245.86	36	13.9233	12.26027	8.800623	36	3.66	3.56	-0.75	-10
73	245.95	37	13.96591	12.25049	8.878505	37	3.66	3.57	-0.74	-9.99
75	245.89	38	14.07955	12.26027	8.925234	38	3.65	3.56	-0.74	-9.99
77	245.89	39	14.16477	12.29941	9.065421	39	3.66	3.57	-0.73	-9.97
79	245.85	40	14.20739	12.37769	9.174455	40	3.66	3.56	-0.72	-9.96
81	245.86	41	14.27841	12.46575	9.283489	41	3.66	3.56	-0.72	-9.96
83	245.86	42	14.30682	12.44618	9.314642	42	3.65	3.55	-0.72	-9.96
85	245.89	43	14.39205	12.48532	9.361371	43	3.66	3.56	-0.72	-9.94
87	245.89	44	14.47727	12.51468	9.470405	44	3.65	3.56	-0.72	-9.93
89	245.89	45	14.5625	12.55382	9.563863	45	3.66	3.57	-0.71	-9.92
91	245.86	46	14.60511	12.58317	9.657321	46	3.67	3.58	-0.71	-9.92
93	245.86	47	14.59091	12.65166	9.750779	47	3.66	3.57	-0.7	-9.9
95	245.89	48	14.67614	12.67123	9.781931	48	3.67	3.59	-0.7	-9.89
97	245.89	49	14.76136	12.6908	9.875389	49	3.67	3.58	-0.69	-9.89
99	245.89	50	14.81818	12.72016	9.968847	50	3.68	3.59	-0.69	-9.89
101	245.89	51	14.8892	12.73973	9.984424	51	3.67	3.59	-0.68	-9.88
103	245.86	52	14.96023	12.76908	10	52	3.66	3.58	-0.68	-9.89
105	245.86	53	15.01705	12.76908	10.10903	53	3.66	3.58	-0.68	-9.89
107	245.86	54	15.08807	12.79843	10.15576	54	3.66	3.59	-0.67	-9.88
109	245.89	55	15.13068	12.80822	10.18692	55	3.68	3.61	-0.66	-9.86
111	245.89	56	15.13068	12.83757	10.28037	56	3.67	3.61	-0.66	-9.86
113	245.89	57	15.1733	12.85714	10.3271	57	3.68	3.62	-0.66	-9.86
115	245.85	58	15.2017	12.90607	10.3271	58	3.69	3.63	-0.65	-9.84
117	245.86	59	15.25852	12.8865	10.40498	59	3.7	3.64	-0.64	-9.82
119	245.86	60	15.31534	12.91585	10.40498	60	3.7	3.65	-0.63	-9.82
121	245.96	61	15.35795	12.92564	10.48287	61	3.69	3.64	-0.64	-9.83
123	245.89	62	15.42898	12.95499	10.49844	62	3.69	3.64	-0.63	-9.83
125	245.89	63	15.42898	12.98434	10.5296	63	3.69	3.65	-0.62	-9.81
127	245.89	64	15.47159	13.00391	10.57632	64	3.7	3.66	-0.62	-9.79
129	245.85	65	15.4858	12.96477	10.60748	65	3.7	3.66	-0.61	-9.79
131	245.86	66	15.5	12.96477	10.65421	66	3.71	3.68	-0.6	-9.78
133	245.86	67	15.52841	13.03327	10.73209	67	3.72	3.7	-0.6	-9.76
135	245.89	68	15.59943	12.99413	10.73209	68	3.72	3.7	-0.59	-9.75
		69	15.64205	13.02348	10.65421	69	3.73	3.71	-0.58	-9.75
		70	15.69886	13.08219	10.66978	70	3.73	3.72	-0.58	-9.75
		71	15.67045	13.09198	10.71651	71	3.74	3.73	-0.58	-9.75
		72	15.69886	13.12133	10.80997	72	3.74	3.74	-0.57	-9.75
		73	15.78409	13.16047	10.84112	73	3.74	3.74	-0.56	-9.75
		74	15.7983	13.18982	10.90343	74	3.74	3.74	-0.56	-9.74
		75	15.8125	13.22896	10.919	75	3.74	3.75	-0.55	-9.74
		76	15.89773	13.20939	10.919	76	3.74	3.75	-0.55	-9.74
		77	15.92614	13.20939	10.87227	77	3.74	3.77	-0.54	-9.74

78	15.96875	13.22896	10.90343	78	3.75	3.77	-0.53	-9.73
79	16.02557	13.25832	10.93458	79	3.76	3.79	-0.53	-9.73
80	15.99716	13.25832	10.90343	80	3.76	3.8	-0.52	-9.71
81	16.03977	13.2681	10.95016	81	3.77	3.81	-0.51	-9.69
82	16.125	13.24853	10.93458	82	3.77	3.82	-0.51	-9.67
83	16.16761	13.27789	11.02804	83	3.78	3.84	-0.5	-9.66
84	16.19602	13.28767	11.05919	84	3.78	3.83	-0.49	-9.65
85	16.21023	13.35616	11.13707	85	3.78	3.84	-0.49	-9.63
86	16.22443	13.37573	11.16822	86	3.78	3.85	-0.48	-9.63
87	16.25284	13.37573	11.24611	87	3.8	3.86	-0.47	-9.62
88	16.26705	13.3953	11.27726	88	3.8	3.87	-0.46	-9.61
89	16.32386	13.3953	11.30841	89	3.8	3.87	-0.46	-9.61
90	16.39489	13.45401	11.30841	90	3.81	3.88	-0.46	-9.61
91	16.4233	13.50294	11.24611	91	3.82	3.9	-0.45	-9.61
92	16.39489	13.44423	11.26168	92	3.82	3.91	-0.44	-9.59
93	16.4375	13.44423	11.32399	93	3.83	3.93	-0.43	-9.57
94	16.52273	13.4638	11.30841	94	3.84	3.94	-0.42	-9.55
95	16.50852	13.51272	11.37072	95	3.84	3.95	-0.41	-9.55
96	16.53693	13.57143	11.40187	96	3.84	3.95	-0.4	-9.54
97	16.59375	13.60078	11.37072	97	3.85	3.96	-0.4	-9.52
98	16.62216	13.57143	11.38629	98	3.85	3.96	-0.39	-9.52
99	16.67898	13.56164	11.38629	99	3.86	3.97	-0.39	-9.51
100	16.7358	13.54207	11.46417	100	3.86	3.98	-0.38	-9.51
101	16.75	13.60078	11.57321	101	3.87	4	-0.37	-9.5
102	16.77841	13.63992	11.54206	102	3.88	4.01	-0.36	-9.5
103	16.83523	13.63992	11.54206	103	3.89	4.03	-0.36	-9.5
104	16.80682	13.65949	11.60436	104	3.89	4.03	-0.35	-9.5
105	16.7358	13.66928	11.55763	105	3.9	4.05	-0.34	-9.5
106	16.80682	13.65949	11.57321	106	3.9	4.05	-0.34	-9.5
107	16.84943	13.63992	11.60436	107	3.91	4.06	-0.33	-9.5
108	16.86364	13.64971	11.63551	108	3.9	4.06	-0.33	-9.5
109	16.87784	13.62035	11.57321	109	3.9	4.06	-0.32	-9.5
110	16.93466	13.63014	11.55763	110	3.9	4.07	-0.32	-9.48
111	16.92045	13.62035	11.61994	111	3.92	4.08	-0.31	-9.48
112	16.94886	13.66928	11.65109	112	3.92	4.1	-0.3	-9.47
113	16.93466	13.7182	11.63551	113	3.93	4.11	-0.29	-9.46
114	16.94886	13.72798	11.61994	114	3.93	4.12	-0.29	-9.44
115	16.99148	13.74755	11.68224	115	3.94	4.13	-0.28	-9.44
116	17.0625	13.74755	11.66667	116	3.94	4.14	-0.28	-9.44
117	17.0767	13.75734	11.68224	117	3.94	4.15	-0.27	-9.42
118	17.13352	13.75734	11.7134	118	3.95	4.15	-0.27	-9.41
119	17.13352	13.74755	11.7134	119	3.96	4.17	-0.26	-9.41
120	17.11932	13.77691	11.69782	120	3.96	4.18	-0.25	-9.4
121	17.13352	13.79648	11.79128	121	3.97	4.19	-0.24	-9.39
122	17.11932	13.78669	11.79128	122	3.97	4.19	-0.23	-9.38

123	17.16193	13.78669	11.79128	123	3.98	4.2	-0.23	-9.38
124	17.24716	13.77691	11.7757	124	3.97	4.2	-0.23	-9.4
125	17.23295	13.78669	11.83801	125	3.98	4.21	-0.22	-9.39
126	17.23295	13.80626	11.86916	126	3.98	4.22	-0.21	-9.37
127	17.19034	13.8454	11.80685	127	3.99	4.23	-0.21	-9.36
128	17.23295	13.80626	11.7134	128	3.99	4.24	-0.2	-9.35
129	17.27557	13.83562	11.76012	129	3.99	4.24	-0.2	-9.35
130	17.30398	13.85519	11.79128	130	4	4.26	-0.19	-9.33
131	17.28977	13.85519	11.80685	131	4.02	4.29	-0.16	-9.32
132	17.31818	13.90411	11.80685	132	4.02	4.29	-0.16	-9.31
133	17.3892	13.90411	11.82243	133	4.02	4.3	-0.16	-9.3
134	17.43182	13.95303	11.85358	134	4.03	4.3	-0.15	-9.29
135	17.41761	13.94325	11.86916	135	4.03	4.31	-0.14	-9.28

HigherRH_exp_13

Experiment type: Higher humidity experiment. This experiment consisted of just an empty petridish. The two humidity buffers were LiCl which have a RH of 11.31% at 0 degrees Celsius. One of the buffers is raised 15.25 cm off the chamber floor. The sample was raised 13.3 cm off the chamber floor. Chiller was set to - 15°C. Temperature around the sample was controlled by the chiller. The pressure ranged from 10-11.3 mbar. One open gallon sized bag and three open sandwich bags of water ice were placed around the sample.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= atmosphere 3= humidity buffer 4= sample

Mass Min.	Mass	RH Min.	Ch02	Ch03	Ch04	T Min.	Ch01	Ch02	Ch03	Ch04
0	246.76	0	24.71875	17.37769	18.86293	0	-3.08	4.78	0.67	-8.63
2	246.76	1	24.8892	17.12329	17.14953	1	-7.6	4.74	0.31	-8.87
4	246.62	2	25.11648	16.08611	15.12461	2	-9.08	-0.67	-2.5	-10.78
6	246.52	3	25.24432	15.01957	13.70717	3	-10.21	-0.38	-2.51	-11.45
8	246.55	4	25.15909	14.21722	12.3053	4	-10.68	0.52	-2.07	-11.41
10	246.56	5	24.78977	13.40509	10.88785	5	-11.14	0.61	-1.95	-11.45
12	246.55	6	24.2358	12.5636	9.719626	6	-11.73	0.67	-1.89	-11.51
14	246.59	7	23.83807	12.01566	8.909657	7	-12.21	1.37	-1.6	-11.43
16	246.59	8	24.15057	11.96673	8.582555	8	-12.37	1.89	-1.28	-11.28

18	246.55	9	25.10227	12.54403	9.127726	9	-12.35	2.15	-1.05	-11.17
20	246.55	10	26.22443	13.28767	9.984424	10	-11.95	2.32	-0.85	-11.09
22	246.62	11	27.13352	13.7182	10.54517	11	-11.42	2.31	-0.74	-11.07
24	246.59	12	27.85795	13.94325	10.93458	12	-10.89	2.28	-0.67	-11.04
26	246.57	13	28.49716	14.05088	11.24611	13	-10.46	2.26	-0.62	-11.03
28	246.52	14	29.07955	14.11937	11.46417	14	-10.03	2.24	-0.59	-11.03
30	246.52	15	29.60511	14.13894	11.57321	15	-9.56	2.21	-0.57	-11.05
32	246.51	16	30.1733	14.13894	11.72897	16	-9.26	2.18	-0.56	-11.05
34	246.54	17	30.65625	14.20744	11.88474	17	-9.08	2.17	-0.55	-11.03
36	246.53	18	31.02557	14.23679	12.08723	18	-8.93	2.16	-0.54	-11.03
38	246.49	19	31.39489	14.26614	12.33645	19	-8.79	2.15	-0.53	-11.02
40	246.49	20	31.82102	14.2955	12.52336	20	-8.68	2.14	-0.52	-11.02
42	246.59	21	32.30398	14.33464	12.64798	21	-8.56	2.14	-0.51	-11
44	246.53	22	32.6875	14.36399	12.77259	22	-8.45	2.13	-0.5	-11
46	246.53	23	33.02841	14.4227	12.8972	23	-8.34	2.11	-0.5	-11.01
48	246.5	24	33.39773	14.39335	13.05296	24	-8.23	2.1	-0.5	-10.99
50	246.5	25	33.75284	14.41292	13.16199	25	-8.11	2.1	-0.49	-10.97
52	246.54	26	34.02273	14.40313	13.2866	26	-7.99	2.1	-0.48	-10.97
54	246.55	27	34.22159	14.41292	13.39564	27	-7.88	2.1	-0.48	-10.96
56	246.55	28	34.50568	14.4227	13.53583	28	-7.78	2.1	-0.48	-10.96
58	246.52	29	34.84659	14.48141	13.66044	29	-7.67	2.11	-0.47	-10.95
60	246.52	30	35.13068	14.53033	13.80062	30	-7.58	2.1	-0.47	-10.96
62	246.56	31	35.35795	14.56947	13.94081	31	-7.48	2.11	-0.47	-10.95
64	246.56	32	35.52841	14.59883	14.04984	32	-7.38	2.12	-0.46	-10.93
66	246.56	33	35.76989	14.59883	14.081	33	-7.28	2.13	-0.45	-10.91
68	246.53	34	36.02557	14.6184	14.15888	34	-7.19	2.13	-0.45	-10.91
70	246.53	35	36.16761	14.66732	14.25234	35	-7.11	2.12	-0.45	-10.9
72	246.57	36	36.26705	14.6771	14.34579	36	-7.02	2.13	-0.44	-10.87
74	246.57	37	36.39489	14.72603	14.4081	37	-6.94	2.13	-0.43	-10.86
76	246.54	38	36.49432	14.71624	14.51713	38	-6.86	2.14	-0.43	-10.87
78	246.55	39	36.56534	14.75538	14.64174	39	-6.78	2.16	-0.42	-10.86
80	246.6	40	36.65057	14.82387	14.71963	40	-6.7	2.17	-0.42	-10.86
82	246.59	41	36.77841	14.83366	14.81308	41	-6.62	2.17	-0.42	-10.84
84	246.59	42	36.87784	14.86301	14.93769	42	-6.55	2.19	-0.41	-10.83
86	246.56	43	36.90625	14.84344	15.03115	43	-6.48	2.19	-0.41	-10.82
88	246.56	44	36.94886	14.90215	15.03115	44	-6.41	2.18	-0.41	-10.82
90	246.6	45	37.00568	14.96086	15.10903	45	-6.35	2.19	-0.41	-10.81
92	246.6	46	37.0767	14.95108	15.14019	46	-6.29	2.2	-0.41	-10.79
94	246.56	47	37.19034	14.95108	15.18692	47	-6.22	2.21	-0.4	-10.78
96	246.57	48	37.21875	14.98043	15.21807	48	-6.15	2.23	-0.39	-10.77
98	246.61	49	37.21875	15.04892	15.2648	49	-6.09	2.24	-0.39	-10.76
100	246.61	50	37.21875	15.09785	15.34268	50	-6.02	2.25	-0.39	-10.76
102	246.61	51	37.20455	15.14677	15.42056	51	-5.96	2.25	-0.39	-10.76
104	246.58	52	37.24716	15.14677	15.5296	52	-5.89	2.27	-0.38	-10.75
106	246.59	53	37.21875	15.1272	15.56075	53	-5.83	2.27	-0.38	-10.75

108	246.59	54	37.24716	15.1272	15.62305	54	-5.77	2.28	-0.38	-10.74
110	246.63	55	37.27557	15.15656	15.68536	55	-5.71	2.28	-0.38	-10.74
112	246.63	56	37.26136	15.15656	15.68536	56	-5.65	2.28	-0.38	-10.74
114	246.6	57	37.24716	15.18591	15.66978	57	-5.6	2.29	-0.38	-10.74
116	246.6	58	37.24716	15.21526	15.68536	58	-5.53	2.32	-0.37	-10.72
118	246.61	59	37.23295	15.23483	15.76324	59	-5.47	2.34	-0.36	-10.71
120	246.65	60	37.19034	15.22505	15.82555	60	-5.42	2.35	-0.36	-10.71
122	246.65	61	37.10511	15.26419	15.8567	61	-5.37	2.35	-0.36	-10.71
124	246.65	62	37.09091	15.31311	15.8567	62	-5.31	2.37	-0.35	-10.7
126	246.63	63	36.99148	15.34247	15.80997	63	-5.25	2.38	-0.34	-10.67
128	246.63	64	36.96307	15.3229	15.8567	64	-5.19	2.38	-0.34	-10.66
130	246.7	65	36.90625	15.3229	15.95016	65	-5.15	2.38	-0.35	-10.67
132	246.7	66	36.86364	15.37182	15.98131	66	-5.11	2.39	-0.35	-10.66
134	246.7	67	36.7358	15.33268	16.04361	67	-5.06	2.41	-0.34	-10.64
136	246.67	68	36.63636	15.36204	16.02804	68	-5	2.43	-0.33	-10.63
138	246.67	69	36.57955	15.41096	16.04361	69	-4.96	2.45	-0.33	-10.63
140	246.74	70	36.57955	15.44031	16.10592	70	-4.91	2.45	-0.33	-10.61
142	246.72	71	36.52273	15.41096	16.09034	71	-4.86	2.47	-0.31	-10.6
144	246.72	72	36.4517	15.41096	16.15265	72	-4.82	2.46	-0.32	-10.6
146	246.69	73	36.39489	15.48924	16.15265	73	-4.78	2.47	-0.32	-10.59
148	246.7	74	36.26705	15.48924	16.1215	74	-4.74	2.47	-0.32	-10.59
150	246.74	75	36.19602	15.51859	16.10592	75	-4.7	2.48	-0.32	-10.59
152	246.73	76	36.16761	15.49902	16.13707	76	-4.65	2.49	-0.31	-10.59
154	246.74	77	36.08239	15.49902	16.24611	77	-4.61	2.51	-0.31	-10.58
156	246.71	78	36.03977	15.47945	16.30841	78	-4.57	2.53	-0.3	-10.55
158	246.72	79	35.99716	15.51859	16.26168	79	-4.53	2.53	-0.3	-10.54
160	246.72	80	35.94034	15.53816	16.24611	80	-4.5	2.55	-0.3	-10.54
162	246.76	81	35.89773	15.56751	16.19938	81	-4.46	2.55	-0.29	-10.53
164	246.76	82	35.88352	15.55773	16.24611	82	-4.42	2.55	-0.29	-10.52
166	246.73	83	35.85511	15.60665	16.26168	83	-4.38	2.56	-0.29	-10.52
168	246.73	84	35.72727	15.63601	16.26168	84	-4.34	2.57	-0.28	-10.52
170	246.74	85	35.59943	15.66536	16.24611	85	-4.3	2.59	-0.28	-10.52
172	246.78	86	35.52841	15.64579	16.26168	86	-4.26	2.6	-0.27	-10.52
174	246.78	87	35.54261	15.63601	16.26168	87	-4.23	2.62	-0.27	-10.52
176	246.78	88	35.4858	15.61644	16.26168	88	-4.2	2.63	-0.27	-10.52
178	246.74	89	35.44318	15.61644	16.30841	89	-4.16	2.64	-0.26	-10.51
180	246.75	90	35.40057	15.62622	16.26168	90	-4.12	2.64	-0.26	-10.51
182	246.81	91	35.35795	15.64579	16.29283	91	-4.09	2.65	-0.26	-10.51
184	246.79	92	35.28693	15.68493	16.33956	92	-4.06	2.65	-0.26	-10.51
186	246.79	93	35.27273	15.68493	16.32399	93	-4.03	2.66	-0.26	-10.5
188	246.76	94	35.1875	15.67515	16.30841	94	-4	2.68	-0.25	-10.49
190	246.78	95	35.15909	15.7045	16.33956	95	-3.96	2.7	-0.24	-10.48
192	246.78	96	35.13068	15.72407	16.43302	96	-3.93	2.71	-0.24	-10.47
194	246.82	97	35.11648	15.79256	16.46417	97	-3.9	2.72	-0.23	-10.45
196	246.82	98	35.10227	15.78278	16.41745	98	-3.88	2.73	-0.24	-10.44

198	246.83	99	35.08807	15.78278	16.46417	99	-3.85	2.73	-0.24	-10.44
200	246.79	100	35.03125	15.80235	16.47975	100	-3.82	2.73	-0.23	-10.42
202	246.8	101	34.94602	15.81213	16.47975	101	-3.8	2.73	-0.23	-10.42
204	246.85	102	34.94602	15.82192	16.47975	102	-3.77	2.74	-0.23	-10.42
206	246.84	103	34.93182	15.85127	16.5109	103	-3.74	2.75	-0.22	-10.41
208	246.84	104	34.875	15.84149	16.49533	104	-3.71	2.77	-0.22	-10.41
210	246.8	105	34.80398	15.86106	16.41745	105	-3.68	2.79	-0.21	-10.41
212	246.81	106	34.71875	15.88063	16.43302	106	-3.66	2.79	-0.22	-10.41
214	246.89	107	34.67614	15.89041	16.49533	107	-3.63	2.81	-0.21	-10.39
216	246.85	108	34.60511	15.90998	16.55763	108	-3.61	2.82	-0.21	-10.38
218	246.85	109	34.63352	15.88063	16.57321	109	-3.58	2.82	-0.21	-10.39
220	246.82	110	34.5767	15.93933	16.5109	110	-3.56	2.82	-0.21	-10.39
222	246.82	111	34.53409	15.93933	16.52648	111	-3.53	2.82	-0.2	-10.37
224	246.88	112	34.49148	15.90998	16.52648	112	-3.51	2.83	-0.2	-10.37
226	246.87	113	34.40625	15.91977	16.55763	113	-3.48	2.83	-0.2	-10.37
228	246.87	114	34.34943	15.93933	16.65109	114	-3.45	2.85	-0.19	-10.35
230	246.84	115	34.32102	15.97847	16.72897	115	-3.44	2.86	-0.19	-10.35
232	246.85	116	34.27841	16.00783	16.66667	116	-3.42	2.86	-0.19	-10.35
234	246.86	117	34.16477	15.97847	16.65109	117	-3.4	2.87	-0.19	-10.35
236	246.9	118	34.17898	15.97847	16.63551	118	-3.38	2.89	-0.18	-10.33
238	246.91	119	34.16477	15.99804	16.65109	119	-3.35	2.91	-0.17	-10.31
240	246.92	120	34.10795	15.99804	16.65109	120	-3.33	2.9	-0.17	-10.32
242	246.9	121	34.03693	15.97847	16.69782	121	-3.31	2.9	-0.17	-10.32
244	246.9	122	33.9517	15.99804	16.69782	122	-3.29	2.91	-0.17	-10.31
246	246.9	123	33.89489	15.94912	16.69782	123	-3.27	2.91	-0.16	-10.31
248	246.94	124	33.75284	15.9589	16.69782	124	-3.25	2.92	-0.16	-10.32
250	246.95	125	33.65341	15.98826	16.68224	125	-3.23	2.93	-0.16	-10.32
252	246.95	126	33.66761	16.03718	16.65109	126	-3.21	2.96	-0.15	-10.3
254	246.93	127	33.6392	16.04697	16.65109	127	-3.2	2.95	-0.16	-10.31
256	246.98	128	33.56818	16.04697	16.69782	128	-3.18	2.96	-0.15	-10.31
258	247.02	129	33.55398	16.01761	16.74455	129	-3.15	2.98	-0.15	-10.29
260	247.02	130	33.52557	16.04697	16.76012	130	-3.14	2.98	-0.15	-10.29
262	247.03	131	33.46875	16.04697	16.74455	131	-3.11	2.98	-0.14	-10.29
264	247	132	33.41193	16.03718	16.74455	132	-3.08	2.99	-0.14	-10.28
266	247.01	133	33.38352	16.08611	16.69782	133	-3.06	3	-0.14	-10.27
268	247.04	134	33.34091	14.24658	16.72897	134	-3.04	3	-0.13	-10.27
270	247.05	135	33.35511	16.05675	16.7757	135	-3.01	3.03	-0.12	-10.27
272	247.05	136	33.34091	16.0274	16.7757	136	-2.99	3.03	-0.12	-10.26
274	247.01	137	33.24148	16.04697	16.7757	137	-2.98	3.04	-0.12	-10.25
276	247.02	138	33.18466	16.06654	16.76012	138	-2.96	3.05	-0.11	-10.24
278	247.02	139	33.17045	16.13503	16.76012	139	-2.93	3.07	-0.1	-10.23
280	247.06	140	33.21307	16.16438	16.7757	140	-2.91	3.08	-0.1	-10.22
282	247.06	141	33.17045	16.10568	16.79128	141	-2.9	3.08	-0.1	-10.22
284	247.02	142	33.11364	16.10568	16.76012	142	-2.88	3.07	-0.1	-10.24
286	247.02	143	33.07102	16.08611	16.80685	143	-2.87	3.08	-0.1	-10.24

288	247.03	144	33	16.12524	16.79128	144	-2.84	3.08	-0.1	-10.22
290	247.06	145	32.97159	16.1546	16.7757	145	-2.82	3.09	-0.1	-10.22
292	247.07	146	32.97159	16.11546	16.82243	146	-2.81	3.1	-0.1	-10.23
294	247.03	147	32.94318	16.1546	16.82243	147	-2.79	3.11	-0.09	-10.22
296	247.04	148	32.97159	16.20352	16.80685	148	-2.77	3.13	-0.08	-10.21
298	247.04	149	32.94318	16.17417	16.85358	149	-2.76	3.13	-0.08	-10.21
300	247.08	150	32.88636	16.12524	16.82243	150	-2.74	3.14	-0.08	-10.21
302	247.08	151	32.84375	16.14481	16.82243	151	-2.72	3.13	-0.08	-10.2
304	247.08	152	32.84375	16.17417	16.80685	152	-2.7	3.14	-0.07	-10.2
306	247.05	153	32.84375	16.20352	16.85358	153	-2.69	3.14	-0.08	-10.21
308	247.05	154	32.85795	16.20352	16.82243	154	-2.68	3.15	-0.07	-10.2
310	247.05	155	32.80114	16.20352	16.82243	155	-2.66	3.15	-0.07	-10.19
312	247.09	156	32.71591	16.19374	16.83801	156	-2.64	3.17	-0.07	-10.2
314	247.09	157	32.6733	16.16438	16.80685	157	-2.64	3.17	-0.07	-10.21
316	247.06	158	32.63068	16.19374	16.83801	158	-2.62	3.18	-0.06	-10.2
318	247.06	159	32.53125	16.22309	16.82243	159	-2.61	3.18	-0.06	-10.19
320	247.06	160	32.55966	16.19374	16.83801	160	-2.6	3.18	-0.07	-10.2
322	247.11	161	32.51705	16.19374	16.85358	161	-2.58	3.2	-0.06	-10.19
324	247.11	162	32.51705	16.20352	16.83801	162	-2.57	3.21	-0.05	-10.18
326	247.11	163	32.51705	16.24266	16.88474	163	-2.55	3.2	-0.06	-10.18
328	247.07	164	32.51705	16.24266	16.90031	164	-2.53	3.21	-0.05	-10.18
330	247.07	165	32.46023	16.25245	16.96262	165	-2.52	3.21	-0.05	-10.17
332	247.12	166	32.44602	16.24266	16.97819	166	-2.5	3.23	-0.04	-10.16
334	247.11	167	32.43182	16.2818	16.93146	167	-2.49	3.24	-0.04	-10.16
336	247.11	168	32.41761	16.30137	16.90031	168	-2.47	3.25	-0.03	-10.15
338	247.08	169	32.41761	16.29159	16.88474	169	-2.45	3.25	-0.03	-10.14
340	247.08	170	32.3892	16.32094	16.93146	170	-2.44	3.27	-0.03	-10.14
342	247.11	171	32.33239	16.30137	16.94704	171	-2.42	3.27	-0.03	-10.14
344	247.11	172	32.375	16.33072	17.00935	172	-2.41	3.27	-0.02	-10.14
346	247.11	173	32.3608	16.35029	17.02492	173	-2.4	3.27	-0.02	-10.13
348	247.07	174	32.31818	16.31115	16.96262	174	-2.38	3.28	-0.02	-10.13
350	247.07	175	32.30398	16.32094	16.94704	175	-2.37	3.28	-0.01	-10.13
352	247.11	176	32.23295	16.31115	16.94704	176	-2.36	3.29	-0.01	-10.12
354	247.11	177	32.23295	16.37965	16.97819	177	-2.34	3.29	-0.01	-10.12
356	247.12	178	32.26136	16.34051	16.93146	178	-2.33	3.29	-0.01	-10.13
358	247.08	179	32.20455	16.34051	16.93146	179	-2.32	3.32	0	-10.12
360	247.09	180	32.20455	16.34051	16.94704	180	-2.31	3.31	-0.01	-10.12
362	247.09	181	32.14773	16.31115	16.93146	181	-2.3	3.32	0	-10.12
364	247.12	182	32.13352	16.36008	17.00935	182	-2.28	3.33	0	-10.12
366	247.12	183	32.16193	16.34051	17.0405	183	-2.26	3.33	0.01	-10.11
368	247.09	184	32.16193	16.39922	17.08723	184	-2.25	3.33	0.01	-10.11
370	247.09	185	32.16193	16.37965	17.05607	185	-2.24	3.33	0.01	-10.12
372	247.09	186	32.09091	16.36986	16.96262	186	-2.22	3.34	0.01	-10.13
374	247.13	187	32.0625	16.36986	16.99377	187	-2.22	3.34	0	-10.14
376	247.13	188	31.99148	16.36008	17.00935	188	-2.2	3.36	0.01	-10.13

378	247.13	189	31.93466	16.36008	16.96262	189	-2.19	3.37	0.02	-10.13
380	247.09	190	31.92045	16.37965	16.94704	190	-2.17	3.38	0.02	-10.13
382	247.09	191	31.93466	16.36986	16.97819	191	-2.17	3.38	0.03	-10.13
384	247.16	192	31.96307	16.409	17.02492	192	-2.16	3.4	0.03	-10.12
386	247.13	193	31.93466	16.41879	17.0405	193	-2.15	3.4	0.03	-10.13
388	247.13	194	31.92045	16.36986	17.07165	194	-2.14	3.4	0.03	-10.12
390	247.09	195	31.86364	16.36986	17.05607	195	-2.13	3.4	0.03	-10.12
392	247.09	196	31.82102	16.43836	17.0405	196	-2.11	3.41	0.04	-10.11
394	247.13	197	31.77841	16.44814	16.97819	197	-2.1	3.41	0.04	-10.11
396	247.13	198	31.7358	16.43836	16.99377	198	-2.1	3.4	0.03	-10.12
398	247.13	199	31.79261	16.39922	17.02492	199	-2.09	3.41	0.04	-10.11
400	247.09	200	31.79261	16.38943	17.02492	200	-2.08	3.43	0.04	-10.11
402	247.09	201	31.79261	16.38943	17.0405	201	-2.06	3.44	0.05	-10.1
404	247.12	202	31.7642	16.41879	17.02492	202	-2.05	3.45	0.05	-10.1
406	247.12	203	31.77841	16.46771	16.97819	203	-2.05	3.44	0.04	-10.11
408	247.12	204	31.67898	16.43836	16.97819	204	-2.03	3.46	0.05	-10.1
410	247.09	205	31.60795	16.43836	17.02492	205	-2.02	3.46	0.06	-10.09
412	247.09	206	31.65057	16.45793	17.02492	206	-2	3.47	0.06	-10.07
414	247.09	207	31.7358	16.45793	17.07165	207	-2	3.47	0.06	-10.06
416	247.12	208	31.69318	16.42857	17.07165	208	-1.99	3.47	0.07	-10.05
418	247.12	209	31.75	16.43836	17.05607	209	-1.99	3.46	0.06	-10.05
420	247.12	210	31.7358	16.4775	17.07165	210	-1.98	3.47	0.06	-10.04
422	247.09	211	31.67898	16.4775	17.08723	211	-1.98	3.48	0.06	-10.04
424	247.09	212	31.70739	16.46771	17.13396	212	-1.96	3.49	0.07	-10.05
426	247.12	213	31.67898	16.5362	17.13396	213	-1.95	3.5	0.07	-10.05
428	247.12	214	31.65057	16.57534	17.1028	214	-1.94	3.51	0.07	-10.04
430	247.12	215	31.63636	16.55577	17.13396	215	-1.93	3.51	0.07	-10.03
432	247.09	216	31.66477	16.5362	17.16511	216	-1.92	3.5	0.08	-10.03
434	247.08	217	31.66477	16.55577	17.14953	217	-1.91	3.5	0.08	-10.02
436	247.12	218	31.60795	16.54599	17.1028	218	-1.9	3.5	0.08	-10.01
438	247.12	219	31.62216	16.57534	17.11838	219	-1.89	3.52	0.09	-10
440	247.12	220	31.67898	16.55577	17.1028	220	-1.89	3.52	0.09	-10.01
442	247.08	221	31.59375	16.5362	17.14953	221	-1.88	3.53	0.09	-10.01
444	247.09	222	31.57955	16.54599	17.14953	222	-1.88	3.53	0.09	-10
446	247.09	223	31.49432	16.56556	17.08723	223	-1.87	3.54	0.09	-9.99
448	247.12	224	31.55114	16.61448	17.07165	224	-1.86	3.54	0.1	-10
450	247.12	225	31.52273	16.61448	17.08723	225	-1.84	3.56	0.11	-9.99
452	247.12	226	31.52273	16.62427	17.14953	226	-1.83	3.54	0.1	-9.99
454	247.09	227	31.49432	16.61448	17.14953	227	-1.83	3.54	0.1	-10
456	247.09	228	31.49432	16.61448	17.1028	228	-1.82	3.55	0.1	-10.01
458	247.09	229	31.48011	16.56556	17.13396	229	-1.81	3.54	0.1	-10.02
460	247.14	230	31.39489	16.56556	17.21184	230	-1.8	3.56	0.1	-10.03
462	247.12	231	31.40909	16.6047	17.19626	231	-1.8	3.56	0.11	-10.03
464	247.12	232	31.39489	16.50685	17.14953	232	-1.79	3.57	0.12	-10.03
466	247.08	233	31.40909	16.48728	17.11838	233	-1.78	3.58	0.12	-10.03

468	247.09	234	31.36648	16.51663	17.11838	234	-1.78	3.59	0.12	-10.03
470	247.14	235	31.39489	16.55577	17.18069	235	-1.77	3.59	0.12	-10.04
472	247.13	236	31.4233	16.61448	17.24299	236	-1.76	3.59	0.12	-10.04
474	247.13	237	31.38068	16.67319	17.22741	237	-1.75	3.59	0.12	-10.04
476	247.1	238	31.32386	16.58513	17.13396	238	-1.75	3.59	0.12	-10.04
478	247.1	239	31.25284	16.52642	17.11838	239	-1.74	3.58	0.12	-10.04
480	247.14	240	31.26705	16.54599	17.13396	240	-1.74	3.59	0.12	-10.04
482	247.15	241	31.29545	16.56556	17.19626	241	-1.74	3.59	0.12	-10.04
484	247.12	242	31.36648	16.56556	17.18069	242	-1.73	3.61	0.12	-10.03
486	247.12	243	31.36648	16.61448	17.14953	243	-1.72	3.61	0.13	-10.01
488	247.07	244	31.35227	16.64384	17.11838	244	-1.71	3.61	0.13	-10.01
490	247.08	245	31.30966	16.62427	17.16511	245	-1.71	3.62	0.13	-10
492	247.15	246	31.30966	16.62427	17.19626	246	-1.7	3.63	0.13	-9.99
494	247.12	247	31.32386	16.6047	17.18069	247	-1.69	3.63	0.13	-9.98
496	247.12	248	31.32386	16.65362	17.25857	248	-1.68	3.63	0.14	-9.98
498	247.08	249	31.28125	16.59491	17.22741	249	-1.68	3.62	0.14	-9.98
500	247.09	250	31.19602	16.57534	17.22741	250	-1.67	3.64	0.15	-9.97
502	247.09	251	31.22443	16.41879	17.24299	251	-1.66	3.64	0.15	-9.96
504	247.13	252	31.19602	16.55577	17.16511	252	-1.66	3.64	0.15	-9.97
506	247.12	253	31.23864	16.64384	17.25857	253	-1.65	3.65	0.16	-9.96
508	247.12	254	31.30966	16.66341	17.3053	254	-1.64	3.67	0.17	-9.95
510	247.08	255	31.26705	16.71233	17.22741	255	-1.64	3.67	0.16	-9.96
512	247.09	256	31.28125	16.72211	17.22741	256	-1.63	3.67	0.16	-9.96
514	247.09	257	31.29545	16.67319	17.27414	257	-1.63	3.66	0.15	-9.97
516	247.13	258	31.26705	16.67319	17.25857	258	-1.62	3.67	0.16	-9.96
518	247.12	259	31.25284	16.64384	17.25857	259	-1.62	3.66	0.16	-9.97
520	247.12	260	31.22443	16.68297	17.22741	260	-1.61	3.67	0.16	-9.97
522	247.08	261	31.23864	16.69276	17.18069	261	-1.61	3.66	0.16	-9.96
524	247.09	262	31.21023	16.7319	17.24299	262	-1.6	3.67	0.17	-9.95
526	247.13	263	31.18182	16.74168	17.27414	263	-1.59	3.68	0.17	-9.96
528	247.13	264	31.22443	16.72211	17.22741	264	-1.59	3.69	0.18	-9.95
530	247.13	265	31.22443	16.74168	17.25857	265	-1.58	3.69	0.17	-9.94
532	247.09	266	31.19602	16.71233	17.27414	266	-1.58	3.7	0.18	-9.94
534	247.1	267	31.18182	17.15264	17.27414	267	-1.58	3.7	0.18	-9.95
536	247.17	268	31.21023	16.91781	17.27414	268	-1.58	3.71	0.18	-9.94
538	247.13	269	31.19602	16.81018	17.25857	269	-1.58	3.7	0.18	-9.94
540	247.13	270	31.18182	16.80039	17.3053	270	-1.57	3.69	0.18	-9.95
542	247.13	271	31.1392	16.7319	17.28972	271	-1.56	3.69	0.18	-9.95
544	247.09	272	31.125	16.72211	17.27414	272	-1.56	3.7	0.19	-9.94
546	247.1	273	31.18182	16.76125	17.28972	273	-1.56	3.7	0.18	-9.95
548	247.1	274	31.16761	16.78082	17.3053	274	-1.54	3.72	0.19	-9.95
550	247.13	275	31.22443	16.78082	17.3053	275	-1.54	3.73	0.19	-9.95
552	247.13	276	31.15341	16.72211	17.28972	276	-1.53	3.73	0.2	-9.94
554	247.13	277	31.125	16.70254	17.28972	277	-1.52	3.75	0.21	-9.93
556	247.1	278	31.1108	16.70254	17.28972	278	-1.51	3.74	0.21	-9.94

558	247.1	279	31.1108	16.76125	17.32087	279	-1.51	3.75	0.21	-9.94
560	247.14	280	31.05398	16.78082	17.32087	280	-1.51	3.74	0.21	-9.94
562	247.14	281	31.02557	16.72211	17.35202	281	-1.5	3.74	0.21	-9.95
564	247.13	282	31.05398	16.69276	17.32087	282	-1.5	3.74	0.21	-9.95
566	247.1	283	31.01136	16.71233	17.24299	283	-1.5	3.74	0.21	-9.94
568	247.1	284	31.03977	16.7319	17.24299	284	-1.49	3.74	0.21	-9.94
570	247.14	285	31.01136	16.79061	17.27414	285	-1.5	3.75	0.21	-9.95
572	247.13	286	31.02557	16.77104	17.24299	286	-1.5	3.75	0.21	-9.95
574	247.13	287	31.03977	16.77104	17.28972	287	-1.49	3.76	0.22	-9.93
		288	31.08239	16.74168	17.28972	288	-1.48	3.77	0.22	-9.94
		289	31.03977	16.75147	17.3053	289	-1.48	3.77	0.22	-9.94
		290	30.98295	16.76125	17.3053	290	-1.47	3.77	0.23	-9.93
		291	30.98295	16.65362	17.32087	291	-1.47	3.76	0.22	-9.94
		292	30.96875	16.70254	17.33645	292	-1.47	3.76	0.22	-9.95
		293	30.98295	16.76125	17.33645	293	-1.46	3.76	0.22	-9.94
		294	30.96875	16.79061	17.28972	294	-1.45	3.77	0.23	-9.93
		295	31.01136	16.80039	17.25857	295	-1.45	3.78	0.23	-9.93
		296	30.99716	16.78082	17.24299	296	-1.45	3.78	0.23	-9.94
		297	30.98295	16.81018	17.24299	297	-1.45	3.79	0.23	-9.93
		298	30.99716	16.79061	17.27414	298	-1.44	3.78	0.23	-9.92
		299	30.96875	16.79061	17.32087	299	-1.44	3.79	0.23	-9.92
		300	30.99716	16.78082	17.33645	300	-1.43	3.79	0.23	-9.93
		301	31.05398	16.78082	17.38318	301	-1.43	3.8	0.24	-9.91
		302	31.02557	16.81018	17.39875	302	-1.42	3.8	0.24	-9.9
		303	30.96875	16.82975	17.44548	303	-1.41	3.79	0.24	-9.91
		304	30.96875	16.81018	17.41433	304	-1.41	3.79	0.24	-9.92
		305	30.98295	16.78082	17.41433	305	-1.41	3.79	0.24	-9.91
		306	31.01136	16.76125	17.3676	306	-1.4	3.8	0.25	-9.91
		307	30.94034	16.80039	17.28972	307	-1.4	3.82	0.25	-9.92
		308	30.94034	16.80039	17.3053	308	-1.39	3.82	0.25	-9.93
		309	30.91193	16.78082	17.32087	309	-1.38	3.83	0.26	-9.93
		310	30.88352	16.80039	17.33645	310	-1.39	3.83	0.26	-9.95
		311	30.88352	16.80039	17.3053	311	-1.39	3.83	0.26	-9.95
		312	30.86932	16.77104	17.27414	312	-1.38	3.82	0.25	-9.96
		313	30.85511	16.76125	17.28972	313	-1.38	3.82	0.25	-9.96
		314	30.78409	16.77104	17.27414	314	-1.38	3.81	0.25	-9.97
		315	30.74148	16.68297	17.3053	315	-1.38	3.81	0.25	-9.97
		316	30.72727	16.68297	17.35202	316	-1.38	3.82	0.25	-9.96
		317	30.72727	16.7319	17.3676	317	-1.38	3.82	0.25	-9.96
		318	30.76989	16.76125	17.35202	318	-1.37	3.84	0.26	-9.95
		319	30.7983	16.80039	17.38318	319	-1.37	3.84	0.26	-9.94
		320	30.7983	16.81996	17.35202	320	-1.36	3.84	0.26	-9.94
		321	30.8267	16.77104	17.33645	321	-1.36	3.85	0.26	-9.94
		322	30.74148	16.80039	17.35202	322	-1.36	3.83	0.26	-9.95
		323	30.71307	16.84932	17.28972	323	-1.36	3.83	0.25	-9.94

324	30.72727	16.82975	17.32087	324	-1.36	3.83	0.26	-9.94
325	30.71307	16.82975	17.39875	325	-1.35	3.83	0.26	-9.94
326	30.72727	16.81996	17.42991	326	-1.36	3.83	0.26	-9.94
327	30.78409	16.81018	17.39875	327	-1.35	3.84	0.26	-9.93
328	30.78409	16.80039	17.39875	328	-1.34	3.85	0.27	-9.93
329	30.75568	16.80039	17.33645	329	-1.34	3.86	0.26	-9.94
330	30.72727	16.78082	17.35202	330	-1.33	3.86	0.27	-9.94
331	30.71307	16.2818	17.3053	331	-1.33	3.87	0.28	-9.95
332	30.65625	16.50685	17.41433	332	-1.32	3.87	0.28	-9.95
333	30.68466	16.72211	17.41433	333	-1.32	3.87	0.28	-9.95
334	30.67045	16.81018	17.33645	334	-1.32	3.87	0.28	-9.95
335	30.64205	16.84932	17.28972	335	-1.31	3.86	0.28	-9.96
336	30.58523	16.81018	17.32087	336	-1.31	3.86	0.28	-9.96
337	30.55682	16.80039	17.32087	337	-1.31	3.86	0.28	-9.96
338	30.58523	16.82975	17.32087	338	-1.3	3.89	0.28	-9.96
339	30.59943	16.81018	17.32087	339	-1.3	3.89	0.28	-9.96
340	30.61364	16.86888	17.3053	340	-1.3	3.88	0.28	-9.96
341	30.62784	16.82975	17.35202	341	-1.3	3.9	0.28	-9.96
342	30.64205	16.79061	17.38318	342	-1.29	3.89	0.28	-9.97
343	30.65625	16.80039	17.38318	343	-1.28	3.9	0.29	-9.96
344	30.65625	16.80039	17.39875	344	-1.28	3.89	0.29	-9.96
345	30.57102	16.77104	17.3053	345	-1.28	3.89	0.29	-9.96
346	30.52841	16.79061	17.28972	346	-1.28	3.89	0.29	-9.95
347	30.61364	16.78082	17.3676	347	-1.28	3.88	0.28	-9.94
348	30.62784	16.78082	17.35202	348	-1.28	3.9	0.29	-9.93
349	30.61364	16.83953	17.3676	349	-1.28	3.91	0.29	-9.93
350	30.65625	16.81996	17.3676	350	-1.28	3.9	0.29	-9.92
351	30.62784	16.82975	17.32087	351	-1.28	3.91	0.29	-9.91
352	30.62784	16.82975	17.3676	352	-1.28	3.92	0.29	-9.92
353	30.58523	16.86888	17.38318	353	-1.28	3.91	0.29	-9.92
354	30.61364	16.86888	17.38318	354	-1.27	3.9	0.29	-9.91
355	30.61364	16.83953	17.41433	355	-1.28	3.9	0.29	-9.92
356	30.64205	16.86888	17.42991	356	-1.27	3.9	0.29	-9.92
357	30.58523	16.8591	17.47664	357	-1.27	3.9	0.29	-9.92
358	30.57102	16.87867	17.44548	358	-1.27	3.9	0.29	-9.91
359	30.57102	16.86888	17.39875	359	-1.26	3.92	0.3	-9.91
360	30.55682	16.88845	17.3676	360	-1.26	3.92	0.3	-9.91
361	30.58523	16.8591	17.3676	361	-1.26	3.92	0.3	-9.92
362	30.62784	16.83953	17.41433	362	-1.26	3.92	0.3	-9.93
363	30.61364	16.83953	17.38318	363	-1.26	3.92	0.3	-9.94
364	30.59943	16.84932	17.3676	364	-1.24	3.93	0.31	-9.92
365	30.52841	16.84932	17.33645	365	-1.24	3.92	0.31	-9.92
366	30.54261	16.8591	17.32087	366	-1.25	3.92	0.3	-9.92
367	30.57102	16.8591	17.35202	367	-1.25	3.91	0.3	-9.93
368	30.52841	16.86888	17.32087	368	-1.24	3.92	0.31	-9.92

369	30.4858	16.86888	17.39875	369	-1.25	3.93	0.31	-9.92
370	30.54261	16.89824	17.3676	370	-1.24	3.93	0.31	-9.93
371	30.58523	16.84932	17.46106	371	-1.23	3.94	0.31	-9.92
372	30.55682	16.82975	17.47664	372	-1.23	3.94	0.31	-9.92
373	30.58523	16.83953	17.39875	373	-1.23	3.95	0.32	-9.92
374	30.58523	16.87867	17.38318	374	-1.23	3.94	0.31	-9.93
375	30.62784	16.91781	17.3676	375	-1.22	3.95	0.32	-9.92
376	30.64205	16.86888	17.39875	376	-1.21	3.95	0.32	-9.91
377	30.65625	16.89824	17.3676	377	-1.22	3.94	0.32	-9.91
378	30.64205	16.88845	17.42991	378	-1.23	3.93	0.31	-9.93
379	30.61364	16.81018	17.38318	379	-1.22	3.94	0.32	-9.92
380	30.59943	16.83953	17.3676	380	-1.21	3.96	0.33	-9.9
381	30.57102	16.87867	17.41433	381	-1.21	3.96	0.33	-9.9
382	30.57102	16.88845	17.47664	382	-1.21	3.97	0.33	-9.91
383	30.59943	16.89824	17.44548	383	-1.2	3.97	0.34	-9.89
384	30.59943	16.87867	17.39875	384	-1.2	3.96	0.33	-9.89
385	30.61364	16.89824	17.38318	385	-1.2	3.98	0.34	-9.89
386	30.59943	16.91781	17.44548	386	-1.19	3.97	0.34	-9.89
387	30.57102	16.89824	17.46106	387	-1.19	3.96	0.34	-9.89
388	30.54261	16.94716	17.41433	388	-1.19	3.96	0.34	-9.89
389	30.55682	16.93738	17.39875	389	-1.19	3.96	0.34	-9.9
390	30.55682	16.94716	17.38318	390	-1.18	3.98	0.34	-9.9
391	30.58523	16.92759	17.47664	391	-1.18	3.98	0.34	-9.9
392	30.64205	16.91781	17.50779	392	-1.17	3.99	0.35	-9.91
393	30.57102	16.92759	17.46106	393	-1.17	3.99	0.35	-9.91
394	30.54261	16.87867	17.42991	394	-1.17	3.98	0.35	-9.91
395	30.54261	16.86888	17.35202	395	-1.18	3.98	0.34	-9.93
396	30.52841	16.88845	17.38318	396	-1.17	3.98	0.34	-9.93
397	30.5	16.87867	17.38318	397	-1.17	3.97	0.35	-9.94
398	30.4858	16.87867	17.39875	398	-1.16	3.98	0.35	-9.94
399	30.54261	16.83953	17.49221	399	-1.16	3.99	0.35	-9.94
400	30.52841	16.86888	17.42991	400	-1.16	3.99	0.35	-9.95
401	30.52841	16.89824	17.44548	401	-1.16	4	0.35	-9.95
402	30.4858	16.88845	17.44548	402	-1.16	4	0.35	-9.96
403	30.5	16.88845	17.46106	403	-1.16	4.01	0.36	-9.96
404	30.47159	16.94716	17.46106	404	-1.16	4	0.35	-9.97
405	30.5	16.90802	17.41433	405	-1.16	3.99	0.34	-9.97
406	30.45739	16.89824	17.38318	406	-1.16	3.98	0.34	-9.97
407	30.42898	16.89824	17.39875	407	-1.16	3.99	0.34	-9.98
408	30.42898	16.8591	17.35202	408	-1.16	3.98	0.34	-9.97
409	30.44318	16.88845	17.38318	409	-1.16	3.99	0.34	-9.96
410	30.5	16.91781	17.41433	410	-1.16	4	0.35	-9.94
411	30.4858	16.93738	17.38318	411	-1.15	4	0.35	-9.94
412	30.44318	16.91781	17.35202	412	-1.16	4.01	0.35	-9.94
413	30.42898	16.91781	17.39875	413	-1.15	4.01	0.35	-9.92

414	30.44318	16.93738	17.44548	414	-1.15	4.01	0.35	-9.93
415	30.45739	16.97652	17.50779	415	-1.15	4.02	0.36	-9.93
416	30.5142	16.96673	17.50779	416	-1.16	4.01	0.35	-9.93
417	30.5	16.91781	17.44548	417	-1.15	4	0.35	-9.92
418	30.45739	16.93738	17.38318	418	-1.15	4	0.35	-9.93
419	30.38636	16.90802	17.3676	419	-1.15	3.99	0.35	-9.93
420	30.37216	16.89824	17.39875	420	-1.15	3.99	0.34	-9.93
421	30.44318	16.86888	17.44548	421	-1.15	4.01	0.35	-9.92
422	30.4858	16.88845	17.38318	422	-1.14	4.01	0.35	-9.93
423	30.42898	16.88845	17.38318	423	-1.14	4.02	0.35	-9.92
424	30.5	16.91781	17.42991	424	-1.14	4.02	0.35	-9.93
425	30.40057	16.93738	17.53894	425	-1.13	4.03	0.36	-9.92
426	30.40057	16.91781	17.57009	426	-1.13	4.03	0.36	-9.94
427	30.42898	16.92759	17.50779	427	-1.13	4.02	0.36	-9.94
428	30.4858	16.91781	17.39875	428	-1.13	4.01	0.36	-9.93
429	30.57102	16.90802	17.3676	429	-1.13	4.01	0.35	-9.93
430	30.5	16.88845	17.38318	430	-1.13	4.01	0.35	-9.93
431	30.47159	16.91781	17.44548	431	-1.13	4.01	0.35	-9.94
432	30.45739	16.93738	17.44548	432	-1.13	4.02	0.36	-9.93
433	30.44318	16.88845	17.42991	433	-1.12	4.03	0.36	-9.93
434	30.41477	16.88845	17.41433	434	-1.12	4.02	0.35	-9.94
435	30.45739	16.91781	17.44548	435	-1.12	4.03	0.36	-9.93
436	30.42898	16.99609	17.39875	436	-1.12	4.03	0.36	-9.92
437	30.44318	16.99609	17.39875	437	-1.12	4.03	0.36	-9.93
438	30.44318	16.96673	17.46106	438	-1.12	4.02	0.36	-9.93
439	30.44318	17.00587	17.46106	439	-1.11	4.02	0.36	-9.93
440	30.41477	16.94716	17.44548	440	-1.12	4.01	0.35	-9.92
441	30.41477	16.93738	17.44548	441	-1.11	4.02	0.36	-9.92
442	30.42898	16.94716	17.41433	442	-1.11	4.02	0.36	-9.93
443	30.44318	16.91781	17.42991	443	-1.11	4.03	0.36	-9.92
444	30.41477	16.93738	17.47664	444	-1.11	4.04	0.37	-9.91
445	30.44318	16.96673	17.50779	445	-1.1	4.04	0.37	-9.91
446	30.4858	16.96673	17.47664	446	-1.1	4.05	0.37	-9.92
447	30.5	16.97652	17.44548	447	-1.1	4.05	0.37	-9.92
448	30.47159	16.97652	17.3676	448	-1.09	4.04	0.38	-9.9
449	30.42898	16.95695	17.41433	449	-1.09	4.04	0.38	-9.91
450	30.42898	16.96673	17.42991	450	-1.1	4.04	0.37	-9.92
451	30.44318	16.97652	17.47664	451	-1.1	4.03	0.37	-9.91
452	30.47159	16.99609	17.44548	452	-1.09	4.04	0.37	-9.91
453	30.45739	17.01566	17.46106	453	-1.1	4.03	0.37	-9.93
454	30.44318	16.9863	17.49221	454	-1.09	4.04	0.38	-9.92
455	30.44318	16.94716	17.46106	455	-1.08	4.06	0.39	-9.91
456	30.42898	16.93738	17.42991	456	-1.08	4.06	0.39	-9.92
457	30.47159	16.93738	17.42991	457	-1.08	4.06	0.39	-9.93
458	30.4858	16.93738	17.39875	458	-1.08	4.06	0.39	-9.93

459	30.38636	16.99609	17.41433	459	-1.09	4.05	0.38	-9.93
460	30.40057	16.97652	17.35202	460	-1.08	4.07	0.39	-9.93
461	30.38636	17.01566	17.41433	461	-1.08	4.06	0.39	-9.93
462	30.35795	16.99609	17.46106	462	-1.08	4.06	0.39	-9.92
463	30.38636	16.94716	17.46106	463	-1.08	4.05	0.38	-9.92
464	30.42898	16.96673	17.42991	464	-1.08	4.05	0.38	-9.92
465	30.44318	16.99609	17.41433	465	-1.07	4.05	0.38	-9.93
466	30.38636	16.95695	17.39875	466	-1.08	4.06	0.38	-9.94
467	30.40057	16.94716	17.49221	467	-1.09	4.04	0.37	-9.94
468	30.40057	16.97652	17.50779	468	-1.08	4.06	0.38	-9.94
469	30.40057	17.00587	17.49221	469	-1.08	4.05	0.38	-9.94
470	30.42898	16.96673	17.46106	470	-1.07	4.06	0.38	-9.94
471	30.44318	16.94716	17.46106	471	-1.07	4.07	0.38	-9.94
472	30.41477	16.9863	17.46106	472	-1.06	4.06	0.39	-9.94
473	30.42898	16.93738	17.44548	473	-1.06	4.06	0.38	-9.94
474	30.40057	16.93738	17.46106	474	-1.06	4.05	0.38	-9.95
475	30.37216	16.95695	17.42991	475	-1.06	4.05	0.38	-9.95
476	30.37216	16.99609	17.44548	476	-1.06	4.05	0.38	-9.96
477	30.40057	16.97652	17.46106	477	-1.06	4.07	0.39	-9.96
478	30.34375	16.95695	17.42991	478	-1.06	4.07	0.39	-9.96
479	30.34375	16.94716	17.44548	479	-1.05	4.07	0.38	-9.98
480	30.32955	16.95695	17.47664	480	-1.06	4.07	0.38	-9.99
481	30.34375	16.97652	17.46106	481	-1.05	4.07	0.38	-9.97
482	30.34375	16.95695	17.44548	482	-1.05	4.07	0.38	-9.95
483	30.40057	16.96673	17.44548	483	-1.05	4.06	0.38	-9.95
484	30.38636	16.9863	17.46106	484	-1.05	4.06	0.38	-9.95
485	30.41477	16.96673	17.52336	485	-1.05	4.05	0.37	-9.95
486	30.47159	16.99609	17.49221	486	-1.05	4.06	0.38	-9.93
487	30.41477	16.97652	17.44548	487	-1.05	4.05	0.38	-9.93
488	30.40057	16.95695	17.47664	488	-1.06	4.05	0.37	-9.95
489	30.40057	17.03523	17.53894	489	-1.05	4.07	0.38	-9.93
490	30.40057	17.04501	17.57009	490	-1.06	4.07	0.38	-9.92
491	30.41477	17.05479	17.50779	491	-1.06	4.06	0.37	-9.92
492	30.44318	17.00587	17.49221	492	-1.05	4.07	0.38	-9.92
493	30.42898	17.01566	17.46106	493	-1.06	4.06	0.38	-9.92
494	30.47159	17.00587	17.42991	494	-1.06	4.06	0.38	-9.91
495	30.47159	16.99609	17.47664	495	-1.05	4.06	0.38	-9.91
496	30.41477	17.01566	17.53894	496	-1.04	4.06	0.38	-9.92
497	30.40057	16.9863	17.52336	497	-1.05	4.05	0.38	-9.94
498	30.40057	16.99609	17.49221	498	-1.05	4.06	0.38	-9.92
499	30.42898	16.99609	17.53894	499	-1.04	4.08	0.39	-9.91
500	30.37216	16.97652	17.49221	500	-1.03	4.08	0.39	-9.91
501	30.35795	16.97652	17.47664	501	-1.02	4.09	0.4	-9.91
502	30.35795	16.95695	17.50779	502	-1.03	4.09	0.4	-9.91
503	30.38636	16.9863	17.55452	503	-1.03	4.09	0.4	-9.91

504	30.40057	16.97652	17.53894	504	-1.02	4.1	0.4	-9.92
505	30.31534	16.96673	17.44548	505	-1.02	4.09	0.4	-9.93
506	30.31534	16.97652	17.42991	506	-1.03	4.08	0.4	-9.93
507	30.37216	16.9863	17.52336	507	-1.03	4.08	0.4	-9.93
508	30.35795	16.99609	17.47664	508	-1.02	4.08	0.4	-9.94
509	30.32955	16.9863	17.44548	509	-1.02	4.08	0.4	-9.94
510	30.32955	16.97652	17.49221	510	-1.02	4.09	0.4	-9.93
511	30.30114	16.9863	17.55452	511	-1.01	4.1	0.41	-9.93
512	30.27273	16.95695	17.52336	512	-1.02	4.09	0.4	-9.95
513	30.30114	16.71233	17.41433	513	-1.02	4.1	0.4	-9.95
514	30.34375	16.87867	17.46106	514	-1.02	4.09	0.4	-9.96
515	30.30114	16.96673	17.46106	515	-1.03	4.09	0.39	-9.98
516	30.31534	16.99609	17.38318	516	-1.03	4.08	0.39	-9.98
517	30.31534	16.9863	17.44548	517	-1.03	4.08	0.38	-9.98
518	30.31534	16.9863	17.49221	518	-1.03	4.07	0.39	-9.97
519	30.23011	16.99609	17.55452	519	-1.04	4.07	0.38	-9.98
520	30.27273	16.99609	17.50779	520	-1.04	4.07	0.38	-9.97
521	30.32955	17.05479	17.47664	521	-1.03	4.07	0.39	-9.96
522	30.32955	17.00587	17.50779	522	-1.03	4.08	0.39	-9.96
523	30.28693	17.06458	17.53894	523	-1.03	4.09	0.39	-9.97
524	30.34375	17.06458	17.46106	524	-1.02	4.09	0.39	-9.97
525	30.31534	16.97652	17.44548	525	-1.02	4.09	0.39	-9.95
526	30.31534	16.99609	17.47664	526	-1.03	4.09	0.39	-9.95
527	30.35795	17.01566	17.52336	527	-1.02	4.09	0.39	-9.95
528	30.34375	17.02544	17.49221	528	-1.02	4.09	0.39	-9.95
529	30.40057	17.01566	17.47664	529	-1.02	4.08	0.39	-9.94
530	30.38636	17.01566	17.46106	530	-1.02	4.07	0.39	-9.94
531	30.37216	17.03523	17.50779	531	-1.02	4.07	0.39	-9.95
532	30.30114	16.84932	17.50779	532	-1.02	4.08	0.39	-9.95
533	30.31534	16.95695	17.53894	533	-1.02	4.09	0.39	-9.93
534	30.35795	17.00587	17.57009	534	-1.01	4.09	0.39	-9.92
535	30.34375	17.06458	17.60125	535	-1	4.11	0.4	-9.92
536	30.35795	17.06458	17.53894	536	-1.01	4.09	0.4	-9.92
537	30.30114	17.06458	17.47664	537	-1.01	4.1	0.4	-9.91
538	30.32955	17.04501	17.46106	538	-1.01	4.1	0.4	-9.92
539	30.28693	17.03523	17.44548	539	-1	4.1	0.4	-9.93
540	30.28693	17.04501	17.44548	540	-1	4.09	0.4	-9.95
541	30.25852	17.00587	17.46106	541	-1.01	4.08	0.39	-9.95
542	30.24432	16.93738	17.49221	542	-1	4.09	0.39	-9.95
543	30.1733	16.93738	17.46106	543	-1	4.09	0.4	-9.95
544	30.21591	16.97652	17.49221	544	-1	4.09	0.39	-9.96
545	30.21591	16.99609	17.49221	545	-1	4.1	0.4	-9.95
546	30.23011	17.02544	17.49221	546	-1.01	4.1	0.39	-9.97
547	30.27273	16.99609	17.46106	547	-1	4.09	0.39	-9.97
548	30.30114	17.01566	17.50779	548	-1	4.09	0.39	-9.97

549	30.25852	17.03523	17.52336	549	-1	4.1	0.39	-9.97
550	30.23011	17.04501	17.46106	550	-1	4.1	0.4	-9.98
551	30.25852	17.02544	17.46106	551	-1	4.09	0.4	-9.98
552	30.25852	16.95695	17.49221	552	-0.99	4.09	0.4	-9.98
553	30.27273	16.95695	17.50779	553	-0.99	4.09	0.39	-9.99
554	30.27273	16.9863	17.47664	554	-0.99	4.09	0.4	-10
555	30.27273	17.00587	17.44548	555	-0.99	4.1	0.4	-10.01
556	30.25852	17.01566	17.46106	556	-0.99	4.11	0.4	-10.01
557	30.23011	17.02544	17.53894	557	-0.99	4.1	0.39	-10.02
558	30.1733	17.01566	17.50779	558	-0.99	4.11	0.4	-10.02
559	30.21591	17.01566	17.50779	559	-0.99	4.1	0.39	-10.02
560	30.25852	16.9863	17.47664	560	-0.99	4.11	0.39	-10.02
561	30.21591	17.00587	17.50779	561	-0.99	4.09	0.39	-10.03
562	30.23011	16.97652	17.49221	562	-0.99	4.09	0.39	-10.02
563	30.2017	16.97652	17.47664	563	-0.99	4.09	0.39	-10.02
564	30.15909	16.95695	17.46106	564	-0.99	4.08	0.38	-10.02
565	30.1733	16.99609	17.44548	565	-0.98	4.1	0.39	-10.02
566	30.21591	17.00587	17.50779	566	-0.98	4.11	0.39	-10.02
567	30.21591	16.97652	17.52336	567	-0.98	4.11	0.39	-10.02
568	30.23011	16.96673	17.50779	568	-0.98	4.11	0.39	-10.01
569	30.23011	16.93738	17.46106	569	-0.97	4.11	0.39	-9.99
570	30.25852	16.99609	17.49221	570	-0.98	4.11	0.39	-9.98
571	30.23011	17.03523	17.49221	571	-0.98	4.1	0.39	-9.99
572	30.25852	17.02544	17.52336	572	-0.99	4.09	0.38	-9.99
573	30.28693	16.97652	17.52336	573	-0.97	4.1	0.39	-9.97

HigherRH_exp_14

Experiment type: Higher humidity experiment. This experiment consisted of just an empty petridish. There was not a humidity buffer inside the chamber. The sample was raised 13.3 cm off the chamber floor. Chiller was set to - 15°C. Temperature around the sample was controlled by the chiller. The chamber was pulled to 6 mbar of pressure, and then the vacuum pump was turned off, allowing the chamber to infill with water vapor. Two open gallon sized bag and two open sandwich bags of water ice were placed around the sample.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= atmosphere 3= humidity buffer 4= sample

Mass Min.	Mass	RH Min.	Ch02	Ch03	Ch04	T Min.	Ch01	Ch02	Ch03	Ch04
0	243.4	0	23.6108	19.72603	2.383178	0	5.43	4.93	8.75	-16.21
2	242.67	1	21.87784	19.32485	1.152648	1	6.94	4.79	-3.08	-14.45
4	242.41	2	22.0767	19.11937	4.299065	2	-2.04	4.67	24.12	-16.6
6	242.35	3	18.2983	19.39335	4.190031	3	-3.23	0.21	20.58	-16.28
8	242.35	4	13.52557	16.36986	3.722741	4	-3.87	-2.66	17.35	-18.69
10	242.37	5	9.732955	13.32681	3.64486	5	-3.72	-0.95	15.83	-19.19
12	242.36	6	7.232955	11.52642	3.878505	6	-3.73	1.94	14.97	-19.39
14	242.35	7	5.017045	9.960861	3.660436	7	-3.76	1.35	14.53	-19.47
16	242.34	8	3.340909	8.600783	2.943925	8	-3.72	1.83	14.21	-19.36
18	242.34	9	2.332386	7.671233	2.211838	9	-3.72	2.22	14.01	-19.36
20	242.34	10	1.693182	7.074364	1.744548	10	-3.75	2.33	13.88	-19.37
22	242.33	11	1.323864	6.624266	1.542056	11	-3.77	2.35	13.78	-19.37
24	242.34	12	1.110795	6.350294	1.495327	12	-3.79	2.38	13.73	-19.38
26	242.34	13	1.181818	6.320939	1.728972	13	-3.81	2.43	13.4	-19.38
28	242.34	14	1.423295	6.428571	2.009346	14	-3.82	2.39	13.31	-19.36
30	242.34	15	1.636364	6.555773	2.28972	15	-3.84	2.35	13.29	-19.36
32	242.34	16	1.806818	6.692759	2.58567	16	-3.87	2.3	13.27	-19.36
34	242.34	17	1.991477	6.819961	2.834891	17	-3.89	2.25	13.25	-19.36
36	242.34	18	2.204545	6.917808	3.021807	18	-3.9	2.22	13.25	-19.35
38	242.35	19	2.417614	7.035225	3.193146	19	-3.91	2.18	13.24	-19.33
40	242.35	20	2.616477	7.142857	3.333333	20	-3.92	2.15	13.24	-19.31
42	242.35	21	2.801136	7.240705	3.520249	21	-3.93	2.11	13.24	-19.3
44	242.35	22	2.957386	7.338552	3.691589	22	-3.94	2.08	13.24	-19.28
46	242.35	23	3.142045	7.436399	3.816199	23	-3.94	2.05	13.24	-19.25
48	242.36	24	3.326705	7.553816	3.925234	24	-3.95	2.01	13.24	-19.24
50	242.36	25	3.497159	7.632094	4.034268	25	-3.96	1.99	13.24	-19.22
52	242.36	26	3.639205	7.729941	4.127726	26	-3.96	1.96	13.25	-19.19
54	242.36	27	3.795455	7.847358	4.221184	27	-3.96	1.94	13.26	-19.17
56	242.36	28	3.980114	7.945205	4.314642	28	-3.96	1.92	13.27	-19.14
58	242.37	29	4.164773	7.984344	4.423676	29	-3.96	1.9	13.27	-19.11
60	242.37	30	4.25	8.043053	4.454829	30	-3.96	1.88	13.28	-19.09
62	242.37	31	4.335227	8.121331	4.563863	31	-3.96	1.86	13.28	-19.06
64	242.37	32	4.477273	8.219178	4.672897	32	-3.96	1.83	13.29	-19.04
66	242.38	33	4.605114	8.287671	4.750779	33	-3.96	1.82	13.29	-19.02
68	242.38	34	4.732955	8.375734	4.813084	34	-3.96	1.8	13.29	-18.99
70	242.39	35	4.832386	8.444227	4.844237	35	-3.97	1.78	13.29	-18.96
72	242.39	36	4.903409	8.493151	4.937695	36	-3.97	1.76	13.29	-18.94
74	242.39	37	5.045455	8.581213	5.015576	37	-3.96	1.75	13.3	-18.91
76	242.39	38	5.144886	8.669276	5.062305	38	-3.96	1.74	13.3	-18.88
78	242.4	39	5.258523	8.7182	5.124611	39	-3.96	1.73	13.3	-18.86
80	242.4	40	5.386364	8.786693	5.124611	40	-3.95	1.72	13.3	-18.82
82	242.4	41	5.485795	8.816047	5.17134	41	-3.95	1.7	13.31	-18.8
84	242.4	42	5.585227	8.825832	5.264798	42	-3.95	1.69	13.31	-18.77

86	242.4	43	5.627841	8.88454	5.342679	43	-3.95	1.68	13.3	-18.75
88	242.41	44	5.684659	8.953033	5.373832	44	-3.95	1.67	13.28	-18.72
90	242.41	45	5.784091	9.031311	5.389408	45	-3.94	1.66	13.27	-18.71
92	242.41	46	5.897727	9.099804	5.482866	46	-3.94	1.65	13.27	-18.68
94	242.42	47	6.011364	9.138943	5.545171	47	-3.93	1.65	13.27	-18.65
96	242.42	48	6.082386	9.168297	5.529595	48	-3.93	1.64	13.27	-18.62
98	242.42	49	6.167614	9.25636	5.576324	49	-3.93	1.63	13.26	-18.61
100	242.42	50	6.238636	9.285714	5.607477	50	-3.93	1.62	13.25	-18.58
102	242.43	51	6.309659	9.354207	5.607477	51	-3.93	1.61	13.24	-18.56
104	242.43	52	6.394886	9.383562	5.716511	52	-3.93	1.6	13.24	-18.54
106	242.43	53	6.4375	9.432485	5.716511	53	-3.93	1.59	13.24	-18.52
108	242.43	54	6.494318	9.491194	5.747664	54	-3.92	1.59	13.25	-18.49
110	242.43	55	6.579545	9.520548	5.76324	55	-3.92	1.58	13.26	-18.47
112	242.44	56	6.636364	9.569472	5.825545	56	-3.92	1.58	13.27	-18.44
114	242.44	57	6.693182	9.569472	5.794393	57	-3.92	1.57	13.28	-18.42
116	242.44	58	6.764205	9.637965	5.825545	58	-3.91	1.57	13.29	-18.4
118	242.45	59	6.792614	9.667319	5.825545	59	-3.91	1.57	13.3	-18.37
120	242.45	60	6.821023	9.706458	5.872274	60	-3.9	1.56	13.3	-18.35
122	242.45	61	6.892045	9.765166	5.88785	61	-3.9	1.56	13.31	-18.33
124	242.45	62	6.963068	9.823875	5.934579	62	-3.9	1.55	13.31	-18.31
126	242.46	63	7.019886	9.853229	5.996885	63	-3.9	1.55	13.31	-18.28
128	242.46	64	7.076705	9.872798	6.043614	64	-3.89	1.55	13.31	-18.27
130	242.46	65	7.119318	9.882583	6.105919	65	-3.88	1.55	13.32	-18.23
132	242.47	66	7.105114	9.921722	6.05919	66	-3.87	1.55	13.33	-18.21
134	242.47	67	7.190341	9.970646	6.105919	67	-3.87	1.54	13.33	-18.2
136	242.47	68	7.21875	10	6.168224	68	-3.86	1.55	13.33	-18.17
138	242.47	69	7.289773	10.07828	6.152648	69	-3.85	1.55	13.33	-18.14
140	242.48	70	7.289773	10.10763	6.168224	70	-3.86	1.54	13.33	-18.13
142	242.48	71	7.346591	10.11742	6.183801	71	-3.85	1.54	13.35	-18.11
144	242.48	72	7.360795	10.18591	6.23053	72	-3.85	1.53	13.36	-18.09
146	242.48	73	7.403409	10.21526	6.308411	73	-3.85	1.53	13.37	-18.07
148	242.49	74	7.460227	10.24462	6.370717	74	-3.84	1.54	13.38	-18.04
150	242.49	75	7.488636	10.26419	6.339564	75	-3.84	1.53	13.39	-18.02
152	242.49	76	7.502841	10.28376	6.308411	76	-3.84	1.53	13.4	-18
154	242.49	77	7.502841	10.29354	6.339564	77	-3.84	1.53	13.4	-17.98
156	242.5	78	7.545455	10.34247	6.386293	78	-3.83	1.53	13.42	-17.96
158	242.5	79	7.573864	10.35225	6.386293	79	-3.82	1.53	13.43	-17.93
160	242.5	80	7.630682	10.42074	6.401869	80	-3.82	1.53	13.44	-17.91
162	242.5	81	7.673295	10.41096	6.401869	81	-3.81	1.54	13.44	-17.89
164	242.51	82	7.701705	10.43053	6.401869	82	-3.81	1.54	13.45	-17.87
166	242.51	83	7.701705	10.4501	6.448598	83	-3.81	1.53	11.64	-17.85
168	242.51	84	7.715909	10.48924	6.52648	84	-3.81	1.53	10.86	-17.83
170	242.51	85	7.772727	10.52838	6.542056	85	-3.8	1.53	10.97	-17.82
172	242.51	86	7.815341	10.54795	6.52648	86	-3.8	1.53	10.95	-17.8
174	242.52	87	7.786932	10.55773	6.479751	87	-3.8	1.53	11.02	-17.77

176	242.52	88	7.801136	10.5773	6.495327	88	-3.8	1.53	11.04	-17.76
178	242.52	89	7.829545	10.61644	6.52648	89	-3.79	1.52	10.99	-17.74
180	242.52	90	7.872159	10.66536	6.495327	90	-3.79	1.53	10.95	-17.72
182	242.53	91	7.914773	10.7045	6.542056	91	-3.78	1.53	10.98	-17.7
184	242.53	92	7.943182	10.71429	6.573209	92	-3.77	1.54	10.94	-17.68
186	242.53	93	7.914773	10.73386	6.588785	93	-3.76	1.54	10.91	-17.65
188	242.54	94	7.914773	10.77299	6.542056	94	-3.76	1.54	10.9	-17.63
190	242.54	95	7.957386	10.79256	6.52648	95	-3.76	1.54	10.87	-17.62
192	242.54	96	8.028409	10.80235	6.573209	96	-3.76	1.53	10.84	-17.61
194	242.54	97	8.071023	10.82192	6.619938	97	-3.76	1.54	10.83	-17.6
196	242.54	98	8.071023	10.85127	6.635514	98	-3.75	1.54	10.82	-17.58
198	242.55	99	8.113636	10.87084	6.666667	99	-3.75	1.55	10.8	-17.56
200	242.55	100	8.085227	10.86106	6.635514	100	-3.75	1.54	10.77	-17.54
202	242.55	101	8.142045	10.90998	6.666667	101	-3.74	1.55	10.76	-17.52
204	242.55	102	8.142045	10.90998	6.697819	102	-3.74	1.55	10.76	-17.5
206	242.56	103	8.142045	10.87084	6.635514	103	-3.73	1.55	10.76	-17.48
208	242.56	104	8.170455	10.9002	6.619938	104	-3.73	1.55	10.76	-17.46
210	242.56	105	8.213068	10.93933	6.65109	105	-3.73	1.55	10.76	-17.44
212	242.56	106	8.255682	10.94912	6.65109	106	-3.73	1.55	10.76	-17.43
214	242.56	107	8.227273	10.96869	6.65109	107	-3.71	1.56	10.77	-17.4
216	242.57	108	8.255682	10.99804	6.65109	108	-3.72	1.56	10.78	-17.39
218	242.57	109	8.269886	11.01761	6.666667	109	-3.71	1.56	10.78	-17.37
220	242.57	110	8.241477	11.0274	6.682243	110	-3.71	1.56	10.77	-17.37
222	242.57	111	8.241477	11.03718	6.666667	111	-3.71	1.57	10.78	-17.35
224	242.58	112	8.213068	11.06654	6.635514	112	-3.71	1.56	10.77	-17.33
226	242.58	113	8.241477	11.07632	6.65109	113	-3.7	1.57	10.77	-17.31
228	242.58	114	8.255682	11.12524	6.697819	114	-3.7	1.57	10.75	-17.29
230	242.58	115	8.269886	11.17417	6.682243	115	-3.69	1.57	10.74	-17.27
232	242.58	116	8.326705	11.17417	6.682243	116	-3.69	1.57	10.73	-17.25
234	242.59	117	8.269886	11.18395	6.713396	117	-3.69	1.58	10.73	-17.24
236	242.59	118	8.255682	11.17417	6.666667	118	-3.69	1.57	10.7	-17.21
238	242.59	119	8.3125	11.18395	6.682243	119	-3.68	1.57	10.63	-17.2
240	242.59	120	8.383523	11.19374	6.713396	120	-3.68	1.57	10.56	-17.19
242	242.6	121	8.397727	11.21331	6.682243	121	-3.68	1.57	10.48	-17.17
244	242.6	122	8.369318	11.24266	6.713396	122	-3.68	1.57	10.46	-17.15
246	242.6	123	8.369318	11.29159	6.713396	123	-3.68	1.57	10.44	-17.14
248	242.6	124	8.397727	11.2818	6.666667	124	-3.67	1.57	10.42	-17.13
250	242.61	125	8.426136	11.27202	6.682243	125	-3.67	1.58	10.43	-17.11
252	242.61	126	8.440341	11.33072	6.728972	126	-3.66	1.59	10.48	-17.09
254	242.61	127	8.454545	11.33072	6.713396	127	-3.66	1.59	10.52	-17.08
256	242.61	128	8.454545	11.34051	6.682243	128	-3.66	1.59	10.56	-17.06
258	242.61	129	8.411932	11.38943	6.728972	129	-3.65	1.59	10.59	-17.05
260	242.61	130	8.454545	11.409	6.728972	130	-3.65	1.59	10.62	-17.03
262	242.62	131	8.497159	11.41879	6.697819	131	-3.65	1.59	10.65	-17.02
264	242.62	132	8.497159	11.37965	6.635514	132	-3.64	1.59	10.67	-17.01

266	242.62	133	8.497159	11.409	6.682243	133	-3.64	1.6	10.7	-16.99
268	242.62	134	8.454545	11.45793	6.728972	134	-3.64	1.6	10.71	-16.98
270	242.63	135	8.46875	11.43836	6.728972	135	-3.64	1.6	10.72	-16.97
272	242.63	136	8.525568	11.44814	6.760125	136	-3.63	1.6	10.74	-16.95
274	242.63	137	8.525568	11.4775	6.744548	137	-3.63	1.6	10.74	-16.94
276	242.63	138	8.539773	11.48728	6.775701	138	-3.63	1.6	10.75	-16.94
278	242.63	139	8.539773	11.48728	6.791277	139	-3.63	1.6	10.75	-16.93
280	242.64	140	8.553977	11.49706	6.744548	140	-3.62	1.6	10.76	-16.92
282	242.64	141	8.610795	11.49706	6.728972	141	-3.62	1.61	10.77	-16.92
284	242.64	142	8.568182	11.5362	6.744548	142	-3.62	1.61	10.77	-16.92
286	242.64	143	8.582386	11.54599	6.760125	143	-3.62	1.61	10.77	-16.91
288	242.64	144	8.610795	11.55577	6.775701	144	-3.61	1.61	10.78	-16.9
290	242.65	145	8.653409	11.57534	6.760125	145	-3.61	1.61	10.78	-16.89
292	242.65	146	8.639205	11.57534	6.728972	146	-3.6	1.62	10.79	-16.87
294	242.65	147	8.625	11.57534	6.760125	147	-3.6	1.62	10.79	-16.86
296	242.65	148	8.610795	11.59491	6.775701	148	-3.61	1.61	10.78	-16.86
298	242.65	149	8.639205	11.59491	6.791277	149	-3.61	1.62	10.79	-16.85
300	242.66	150	8.681818	11.62427	6.744548	150	-3.6	1.62	10.79	-16.83
302	242.66	151	8.681818	11.67319	6.697819	151	-3.59	1.63	10.79	-16.81
304	242.66	152	8.681818	11.70254	6.682243	152	-3.58	1.63	10.79	-16.8
306	242.66	153	8.696023	11.65362	6.713396	153	-3.58	1.63	10.79	-16.79
308	242.66	154	8.696023	11.65362	6.775701	154	-3.58	1.63	10.78	-16.78
310	242.67	155	8.724432	11.67319	6.728972	155	-3.58	1.63	10.78	-16.77
312	242.67	156	8.667614	11.70254	6.697819	156	-3.58	1.63	10.77	-16.76
314	242.67	157	8.639205	11.71233	6.713396	157	-3.58	1.63	10.77	-16.75
316	242.67	158	8.667614	11.74168	6.744548	158	-3.58	1.64	10.77	-16.74
318	242.67	159	8.724432	11.77104	6.728972	159	-3.58	1.62	10.76	-16.74
320	242.68	160	8.78125	11.79061	6.666667	160	-3.58	1.63	10.76	-16.72
322	242.68	161	8.752841	11.79061	6.65109	161	-3.57	1.64	10.77	-16.7
324	242.68	162	8.710227	11.78082	6.65109	162	-3.57	1.64	10.76	-16.7
326	242.68	163	8.738636	11.77104	6.65109	163	-3.57	1.64	10.77	-16.68
328	242.68	164	8.738636	11.79061	6.666667	164	-3.57	1.64	10.78	-16.67
330	242.68	165	8.724432	11.79061	6.697819	165	-3.57	1.64	10.79	-16.66
332	242.69	166	8.795455	11.81018	6.713396	166	-3.56	1.65	10.8	-16.63
334	242.69	167	8.795455	11.82975	6.728972	167	-3.56	1.65	10.81	-16.61
336	242.69	168	8.809659	11.82975	6.728972	168	-3.56	1.64	10.8	-16.61
338	242.69	169	8.809659	11.8591	6.666667	169	-3.55	1.65	10.82	-16.59
340	242.69	170	8.823864	11.8591	6.666667	170	-3.56	1.65	10.82	-16.57
342	242.69	171	8.823864	11.88845	6.728972	171	-3.55	1.65	10.82	-16.56
344	242.7	172	8.838068	11.94716	6.728972	172	-3.54	1.66	10.81	-16.54
346	242.7	173	8.880682	11.93738	6.682243	173	-3.53	1.66	10.8	-16.52
348	242.7	174	8.838068	11.91781	6.682243	174	-3.53	1.66	10.78	-16.52
350	242.7	175	8.894886	11.90802	6.744548	175	-3.52	1.67	10.77	-16.51
352	242.7	176	8.866477	11.93738	6.744548	176	-3.52	1.67	10.75	-16.5
354	242.7	177	8.866477	11.99609	6.728972	177	-3.52	1.67	10.74	-16.5

356	242.71	178	8.894886	11.9863	6.697819	178	-3.52	1.66	10.75	-16.49
358	242.71	179	8.894886	11.9863	6.682243	179	-3.51	1.67	10.75	-16.48
360	242.71	180	8.909091	11.99609	6.666667	180	-3.51	1.67	10.75	-16.47
362	242.71	181	8.880682	11.97652	6.713396	181	-3.5	1.67	10.76	-16.45
364	242.71	182	8.894886	11.9863	6.697819	182	-3.5	1.67	10.76	-16.44
366	242.72	183	8.951705	12.00587	6.697819	183	-3.5	1.67	10.77	-16.43
368	242.72	184	8.951705	12.01566	6.744548	184	-3.5	1.67	10.77	-16.42
370	242.72	185	8.951705	12.02544	6.744548	185	-3.49	1.67	10.78	-16.41
372	242.72	186	8.9375	12.03523	6.713396	186	-3.49	1.67	10.78	-16.4
374	242.72	187	8.965909	12.05479	6.666667	187	-3.49	1.68	10.79	-16.38
376	242.72	188	8.923295	12.07436	6.635514	188	-3.49	1.67	10.79	-16.38
378	242.72	189	8.9375	12.06458	6.65109	189	-3.48	1.68	10.79	-16.37
380	242.73	190	9.008523	12.09393	6.666667	190	-3.48	1.67	10.8	-16.36
382	242.73	191	9.022727	12.13307	6.682243	191	-3.48	1.68	10.81	-16.35
384	242.73	192	8.980114	12.14286	6.713396	192	-3.47	1.68	10.83	-16.33
386	242.73	193	9.036932	12.16243	6.682243	193	-3.47	1.68	10.84	-16.32
388	242.73	194	9.036932	12.15264	6.619938	194	-3.47	1.68	10.85	-16.31
390	242.73	195	9.051136	12.13307	6.604361	195	-3.47	1.68	10.86	-16.31
392	242.74	196	9.122159	12.16243	6.65109	196	-3.46	1.68	10.87	-16.29
394	242.74	197	9.122159	12.19178	6.697819	197	-3.46	1.69	10.88	-16.27
396	242.74	198	9.122159	12.23092	6.682243	198	-3.45	1.69	10.9	-16.27
398	242.74	199	9.178977	12.25049	6.666667	199	-3.45	1.69	10.91	-16.26
400	242.74	200	9.221591	12.26027	6.604361	200	-3.45	1.69	10.92	-16.24
402	242.74	201	9.264205	12.28963	6.542056	201	-3.44	1.69	10.93	-16.24
404	242.75	202	9.25	12.31898	6.604361	202	-3.45	1.68	10.93	-16.23
406	242.75	203	9.235795	12.33855	6.65109	203	-3.44	1.68	10.94	-16.22
408	242.75	204	9.235795	12.32877	6.65109	204	-3.44	1.68	10.95	-16.21
410	242.75	205	9.25	12.36791	6.635514	205	-3.44	1.68	10.95	-16.2
412	242.75	206	9.264205	12.38748	6.666667	206	-3.43	1.69	10.96	-16.19
414	242.75	207	9.335227	12.41683	6.666667	207	-3.42	1.69	10.97	-16.18
416	242.76	208	9.377841	12.42661	6.682243	208	-3.41	1.7	10.98	-16.17
418	242.76	209	9.434659	12.46575	6.65109	209	-3.41	1.7	10.99	-16.15
420	242.76	210	9.420455	12.49511	6.666667	210	-3.4	1.7	10.99	-16.14
422	242.76	211	9.477273	12.48532	6.682243	211	-3.39	1.7	11	-16.13
424	242.76	212	9.505682	12.53425	6.697819	212	-3.38	1.71	11.01	-16.11
426	242.76	213	9.491477	12.54403	6.697819	213	-3.38	1.71	11.02	-16.1
428	242.76	214	9.505682	12.58317	6.666667	214	-3.37	1.71	11.02	-16.1
430	242.77	215	9.534091	12.59295	6.713396	215	-3.37	1.71	11.02	-16.1
432	242.77	216	9.548295	12.59295	6.666667	216	-3.37	1.71	11.03	-16.1
434	242.77	217	9.576705	12.58317	6.666667	217	-3.37	1.71	11.03	-16.1
436	242.77	218	9.605114	12.61252	6.682243	218	-3.36	1.72	11.04	-16.1
438	242.77	219	9.619318	12.63209	6.666667	219	-3.35	1.72	11.05	-16.09
440	242.77	220	9.661932	12.64188	6.619938	220	-3.35	1.73	11.05	-16.09
442	242.77	221	9.633523	12.67123	6.635514	221	-3.35	1.72	11.06	-16.08
444	242.77	222	9.633523	12.71037	6.619938	222	-3.34	1.72	11.06	-16.07

446	242.78	223	9.690341	12.72016	6.635514	223	-3.34	1.72	11.07	-16.06
448	242.78	224	9.704545	12.7593	6.604361	224	-3.34	1.72	11.07	-16.04
450	242.78	225	9.71875	12.7593	6.604361	225	-3.33	1.73	11.08	-16.03
452	242.78	226	9.704545	12.79843	6.65109	226	-3.33	1.73	11.09	-16.01
454	242.78	227	9.747159	12.7593	6.635514	227	-3.32	1.74	11.1	-15.99
456	242.78	228	9.747159	12.77886	6.666667	228	-3.33	1.73	11.09	-16
458	242.79	229	9.789773	12.80822	6.682243	229	-3.32	1.73	11.1	-15.99
460	242.79	230	9.789773	12.80822	6.65109	230	-3.31	1.74	11.11	-15.98
462	242.79	231	9.803977	12.80822	6.619938	231	-3.31	1.74	11.11	-15.97
464	242.79	232	9.789773	12.82779	6.619938	232	-3.3	1.74	11.12	-15.96
466	242.79	233	9.860795	12.84736	6.65109	233	-3.3	1.74	11.13	-15.95
468	242.79	234	9.875	12.86693	6.635514	234	-3.3	1.74	11.13	-15.95
470	242.79	235	9.889205	12.86693	6.65109	235	-3.3	1.74	11.13	-15.94
472	242.79	236	9.860795	12.86693	6.604361	236	-3.29	1.75	11.14	-15.92
474	242.8	237	9.860795	12.89628	6.604361	237	-3.29	1.74	11.13	-15.92
476	242.8	238	9.875	12.86693	6.573209	238	-3.29	1.73	11.13	-15.92
478	242.8	239	9.917614	12.85714	6.573209	239	-3.29	1.73	11.13	-15.91
480	242.8	240	9.946023	12.8865	6.52648	240	-3.28	1.75	11.15	-15.89
482	242.8	241	10.00284	12.93542	6.573209	241	-3.28	1.75	11.15	-15.88
484	242.8	242	10.03125	12.93542	6.619938	242	-3.27	1.75	11.16	-15.87
486	242.8	243	10.03125	12.98434	6.682243	243	-3.26	1.76	11.17	-15.87
488	242.81	244	10.03125	12.96477	6.65109	244	-3.26	1.76	11.17	-15.86
490	242.81	245	10.07386	12.98434	6.65109	245	-3.26	1.76	11.17	-15.87
492	242.81	246	10.07386	13.02348	6.635514	246	-3.25	1.75	11.17	-15.87
494	242.81	247	10.10227	13.03327	6.635514	247	-3.25	1.75	11.17	-15.87
496	242.81	248	10.10227	13.00391	6.635514	248	-3.25	1.76	11.18	-15.86
498	242.81	249	10.05966	13.0137	6.635514	249	-3.25	1.76	11.18	-15.86
500	242.81	250	10.05966	13.03327	6.65109	250	-3.24	1.76	11.18	-15.85
502	242.81	251	10.08807	13.08219	6.666667	251	-3.24	1.76	11.19	-15.84
504	242.81	252	10.08807	13.09198	6.682243	252	-3.24	1.76	11.19	-15.83
506	242.82	253	10.08807	13.07241	6.65109	253	-3.23	1.76	11.19	-15.83
508	242.82	254	10.04545	13.07241	6.619938	254	-3.24	1.76	11.2	-15.83
510	242.82	255	10.08807	13.08219	6.604361	255	-3.23	1.77	11.2	-15.82
512	242.82	256	10.08807	13.05284	6.619938	256	-3.23	1.77	11.2	-15.82
514	242.82	257	10.08807	13.08219	6.604361	257	-3.22	1.77	11.21	-15.81
516	242.82	258	10.10227	13.07241	6.588785	258	-3.23	1.77	11.21	-15.8
518	242.82	259	10.13068	13.09198	6.588785	259	-3.22	1.77	11.21	-15.79
520	242.82	260	10.11648	13.13112	6.573209	260	-3.22	1.77	11.22	-15.78
522	242.82	261	10.08807	13.16047	6.542056	261	-3.22	1.77	11.22	-15.77
524	242.83	262	10.11648	13.1409	6.557632	262	-3.23	1.77	11.21	-15.76
526	242.83	263	10.1875	13.11155	6.573209	263	-3.23	1.76	11.21	-15.76
528	242.83	264	10.1733	13.13112	6.588785	264	-3.22	1.77	11.22	-15.74
530	242.83	265	10.15909	13.16047	6.573209	265	-3.21	1.77	11.22	-15.74
532	242.83	266	10.1875	13.18004	6.604361	266	-3.22	1.77	11.22	-15.74
534	242.83	267	10.2017	13.16047	6.619938	267	-3.21	1.77	11.22	-15.72

536	242.83	268	10.15909	13.17025	6.573209	268	-3.2	1.78	11.23	-15.7
538	242.83	269	10.1733	13.18004	6.542056	269	-3.18	1.79	11.24	-15.69
540	242.83	270	10.24432	13.18004	6.542056	270	-3.18	1.78	11.24	-15.69
542	242.84	271	10.2017	13.21918	6.604361	271	-3.18	1.78	11.24	-15.68
544	242.84	272	10.2017	13.23875	6.635514	272	-3.18	1.78	11.25	-15.68
546	242.84	273	10.24432	13.28767	6.619938	273	-3.18	1.78	11.25	-15.68
548	242.84	274	10.2017	13.27789	6.604361	274	-3.17	1.79	11.25	-15.66
550	242.84	275	10.2017	13.2681	6.619938	275	-3.16	1.79	11.26	-15.65
552	242.84	276	10.24432	13.28767	6.588785	276	-3.16	1.79	11.26	-15.64
554	242.84	277	10.28693	13.30724	6.604361	277	-3.16	1.79	11.25	-15.64
556	242.84	278	10.34375	13.28767	6.573209	278	-3.15	1.79	11.26	-15.63
558	242.85	279	10.28693	13.28767	6.573209	279	-3.15	1.79	11.26	-15.63
560	242.85	280	10.34375	13.30724	6.604361	280	-3.14	1.8	11.27	-15.62
562	242.85	281	10.37216	13.32681	6.619938	281	-3.14	1.8	11.27	-15.61
564	242.85	282	10.38636	13.35616	6.635514	282	-3.14	1.79	11.27	-15.61
566	242.85	283	10.41477	13.38552	6.573209	283	-3.13	1.79	11.27	-15.61
568	242.85	284	10.41477	13.35616	6.604361	284	-3.13	1.8	11.28	-15.6
570	242.85	285	10.38636	13.35616	6.619938	285	-3.12	1.8	11.28	-15.6
572	242.85	286	10.40057	13.3953	6.619938	286	-3.13	1.79	11.28	-15.6
574	242.85	287	10.41477	13.40509	6.619938	287	-3.12	1.8	11.28	-15.6
576	242.85	288	10.44318	13.40509	6.604361	288	-3.13	1.79	11.28	-15.59
578	242.85	289	10.41477	13.41487	6.619938	289	-3.12	1.8	11.28	-15.58
580	242.86	290	10.42898	13.44423	6.619938	290	-3.13	1.79	11.28	-15.59
582	242.86	291	10.42898	13.43444	6.666667	291	-3.12	1.79	11.28	-15.59
584	242.86	292	10.41477	13.47358	6.635514	292	-3.12	1.79	11.28	-15.57
586	242.86	293	10.42898	13.47358	6.557632	293	-3.11	1.79	11.29	-15.57
588	242.86	294	10.5	13.48337	6.588785	294	-3.11	1.79	11.29	-15.56
590	242.86	295	10.5142	13.48337	6.557632	295	-3.11	1.79	11.29	-15.54
592	242.86	296	10.52841	13.48337	6.542056	296	-3.11	1.79	11.29	-15.55
594	242.86	297	10.5142	13.47358	6.557632	297	-3.1	1.79	11.3	-15.54
596	242.86	298	10.4858	13.43444	6.619938	298	-3.1	1.79	11.3	-15.53
598	242.86	299	10.44318	13.43444	6.65109	299	-3.1	1.8	11.3	-15.52
600	242.86	300	10.45739	13.4638	6.65109	300	-3.09	1.79	11.3	-15.52
602	242.87	301	10.47159	13.51272	6.635514	301	-3.09	1.79	11.3	-15.51
604	242.87	302	10.5142	13.5225	6.604361	302	-3.09	1.79	11.3	-15.52
606	242.87	303	10.57102	13.56164	6.619938	303	-3.09	1.79	11.3	-15.52
608	242.87	304	10.57102	13.55186	6.635514	304	-3.08	1.79	11.3	-15.52
610	242.87	305	10.52841	13.53229	6.588785	305	-3.08	1.8	11.3	-15.51
612	242.87	306	10.4858	13.56164	6.604361	306	-3.07	1.8	11.3	-15.51
614	242.87	307	10.54261	13.55186	6.588785	307	-3.07	1.8	11.3	-15.5
616	242.87	308	10.61364	13.53229	6.619938	308	-3.07	1.79	11.3	-15.5
618	242.87	309	10.59943	13.57143	6.604361	309	-3.08	1.79	11.29	-15.5
620	242.87	310	10.55682	13.58121	6.619938	310	-3.07	1.79	11.29	-15.49
622	242.88	311	10.52841	13.54207	6.666667	311	-3.07	1.79	11.29	-15.48
624	242.87	312	10.54261	13.56164	6.666667	312	-3.07	1.79	11.29	-15.48

626	242.88	313	10.54261	13.591	6.666667	313	-3.06	1.8	11.29	-15.47
628	242.88	314	10.5	13.56164	6.635514	314	-3.05	1.8	11.3	-15.46
630	242.88	315	10.5142	13.54207	6.682243	315	-3.05	1.8	11.29	-15.46
632	242.88	316	10.55682	13.54207	6.682243	316	-3.05	1.8	11.29	-15.46
634	242.88	317	10.54261	13.58121	6.682243	317	-3.05	1.81	11.3	-15.45
636	242.88	318	10.52841	13.58121	6.65109	318	-3.05	1.8	11.29	-15.45
638	242.88	319	10.57102	13.56164	6.604361	319	-3.04	1.81	11.3	-15.44
640	242.88	320	10.57102	13.58121	6.588785	320	-3.04	1.81	11.3	-15.43
642	242.88	321	10.59943	13.591	6.666667	321	-3.04	1.81	11.3	-15.43
644	242.88	322	10.55682	13.591	6.666667	322	-3.04	1.81	11.3	-15.42
646	242.88	323	10.58523	13.56164	6.65109	323	-3.03	1.81	11.31	-15.41
648	242.88	324	10.55682	13.57143	6.65109	324	-3.03	1.81	11.31	-15.41
650	242.89	325	10.58523	13.57143	6.713396	325	-3.02	1.81	11.31	-15.41
652	242.89	326	10.57102	13.61057	6.666667	326	-3.02	1.81	11.31	-15.4
654	242.89	327	10.58523	13.62035	6.65109	327	-3.02	1.81	11.31	-15.4
656	242.89	328	10.61364	13.63014	6.682243	328	-3.02	1.81	11.32	-15.4
658	242.89	329	10.57102	13.62035	6.65109	329	-3.02	1.81	11.31	-15.39
660	242.89	330	10.55682	13.63992	6.619938	330	-3.02	1.81	11.31	-15.39
662	242.89	331	10.59943	13.66928	6.619938	331	-3.01	1.82	11.31	-15.39
664	242.89	332	10.65625	13.66928	6.666667	332	-3.01	1.81	11.31	-15.39
666	242.89	333	10.59943	13.67906	6.635514	333	-3.01	1.81	11.3	-15.39
668	242.89	334	10.59943	13.67906	6.682243	334	-3.01	1.8	11.29	-15.38
670	242.89	335	10.59943	13.67906	6.728972	335	-3.01	1.8	11.28	-15.38
672	242.89	336	10.59943	13.69863	6.666667	336	-3	1.81	11.28	-15.38
674	242.89	337	10.61364	13.65949	6.635514	337	-2.99	1.81	11.27	-15.36
676	242.89	338	10.59943	13.65949	6.635514	338	-2.99	1.81	11.27	-15.36
678	242.9	339	10.58523	13.67906	6.666667	339	-2.99	1.81	11.26	-15.36
680	242.9	340	10.58523	13.67906	6.697819	340	-2.99	1.8	11.25	-15.35
682	242.9	341	10.57102	13.65949	6.697819	341	-2.99	1.8	11.25	-15.35
684	242.9	342	10.58523	13.69863	6.682243	342	-2.99	1.8	11.24	-15.35
686	242.9	343	10.61364	13.7182	6.635514	343	-2.99	1.8	11.23	-15.34
688	242.9	344	10.64205	13.7182	6.619938	344	-2.99	1.8	11.23	-15.34
690	242.9	345	10.62784	13.74755	6.65109	345	-2.98	1.8	11.22	-15.34
692	242.9	346	10.67045	13.7182	6.666667	346	-2.97	1.81	11.23	-15.32
694	242.91	347	10.68466	13.69863	6.682243	347	-2.98	1.8	11.22	-15.32
		348	10.65625	13.73777	6.666667	348	-2.97	1.81	11.22	-15.31
		349	10.68466	13.73777	6.604361	349	-2.97	1.81	11.22	-15.32
		350	10.71307	13.73777	6.588785	350	-2.96	1.82	11.22	-15.33
		351	10.68466	13.73777	6.588785	351	-2.96	1.81	11.21	-15.33
		352	10.67045	13.70841	6.635514	352	-2.96	1.82	11.21	-15.33
		353	10.71307	13.7182	6.635514	353	-2.95	1.82	11.21	-15.33
		354	10.68466	13.73777	6.588785	354	-2.96	1.81	11.2	-15.34
		355	10.62784	13.73777	6.619938	355	-2.96	1.81	11.2	-15.34
		356	10.62784	13.74755	6.682243	356	-2.95	1.82	11.2	-15.33
		357	10.59943	13.74755	6.65109	357	-2.96	1.82	11.2	-15.33

358	10.61364	13.73777	6.588785	358	-2.96	1.81	11.19	-15.34
359	10.64205	13.72798	6.604361	359	-2.96	1.81	11.19	-15.34
360	10.68466	13.70841	6.619938	360	-2.96	1.82	11.19	-15.33
361	10.62784	13.7182	6.666667	361	-2.96	1.82	11.19	-15.33
362	10.57102	13.72798	6.635514	362	-2.96	1.82	11.19	-15.33
363	10.57102	13.73777	6.619938	363	-2.97	1.81	11.17	-15.34
364	10.58523	13.69863	6.635514	364	-2.97	1.81	11.16	-15.34
365	10.57102	13.7182	6.619938	365	-2.97	1.81	11.16	-15.34
366	10.55682	13.7182	6.635514	366	-2.97	1.81	11.16	-15.33
367	10.61364	13.72798	6.619938	367	-2.96	1.81	11.16	-15.33
368	10.59943	13.74755	6.604361	368	-2.97	1.81	11.15	-15.33
369	10.57102	13.72798	6.542056	369	-2.97	1.81	11.16	-15.32
370	10.55682	13.72798	6.542056	370	-2.97	1.8	11.15	-15.33
371	10.58523	13.70841	6.573209	371	-2.97	1.8	11.15	-15.33
372	10.62784	13.73777	6.573209	372	-2.98	1.8	11.15	-15.33
373	10.61364	13.74755	6.557632	373	-2.98	1.8	11.15	-15.33
374	10.61364	13.72798	6.588785	374	-2.98	1.8	11.15	-15.32
375	10.61364	13.72798	6.573209	375	-2.97	1.8	11.16	-15.32
376	10.58523	13.73777	6.557632	376	-2.97	1.8	11.16	-15.31
377	10.54261	13.70841	6.573209	377	-2.97	1.81	11.17	-15.31
378	10.54261	13.70841	6.604361	378	-2.97	1.81	11.17	-15.31
379	10.5	13.7182	6.573209	379	-2.97	1.8	11.17	-15.31
380	10.5	13.69863	6.557632	380	-2.97	1.8	11.17	-15.31
381	10.4858	13.69863	6.52648	381	-2.97	1.8	11.17	-15.3
382	10.47159	13.69863	6.557632	382	-2.97	1.8	11.17	-15.3
383	10.5142	13.70841	6.557632	383	-2.97	1.8	11.17	-15.3
384	10.54261	13.69863	6.52648	384	-2.97	1.8	11.17	-15.3
385	10.54261	13.69863	6.495327	385	-2.97	1.79	11.17	-15.3
386	10.47159	13.7182	6.557632	386	-2.98	1.79	11.16	-15.31
387	10.45739	13.72798	6.542056	387	-2.98	1.79	11.16	-15.3
388	10.47159	13.72798	6.542056	388	-2.97	1.79	11.16	-15.3
389	10.44318	13.73777	6.510903	389	-2.97	1.79	11.16	-15.3
390	10.4858	13.7182	6.542056	390	-2.97	1.79	11.16	-15.29
391	10.5142	13.70841	6.542056	391	-2.97	1.79	11.16	-15.29
392	10.47159	13.65949	6.52648	392	-2.98	1.78	11.16	-15.29
393	10.47159	13.68885	6.52648	393	-2.97	1.78	11.16	-15.29
394	10.45739	13.72798	6.52648	394	-2.97	1.78	11.15	-15.29
395	10.4858	13.70841	6.510903	395	-2.98	1.78	11.15	-15.29
396	10.5	13.66928	6.52648	396	-2.98	1.78	11.14	-15.29
397	10.44318	13.66928	6.495327	397	-2.98	1.77	11.14	-15.29
398	10.45739	13.65949	6.510903	398	-2.98	1.77	11.13	-15.29
399	10.47159	13.64971	6.510903	399	-2.98	1.77	11.13	-15.29
400	10.47159	13.65949	6.542056	400	-2.98	1.76	11.13	-15.29
401	10.5	13.66928	6.542056	401	-2.98	1.77	11.13	-15.29
402	10.44318	13.65949	6.573209	402	-2.98	1.77	11.14	-15.28

403	10.42898	13.65949	6.573209	403	-2.98	1.76	11.14	-15.28
404	10.41477	13.67906	6.557632	404	-2.99	1.76	11.13	-15.29
405	10.42898	13.69863	6.52648	405	-2.99	1.76	11.13	-15.29
406	10.44318	13.68885	6.479751	406	-2.99	1.75	11.13	-15.29
407	10.38636	13.66928	6.495327	407	-2.98	1.76	11.13	-15.29
408	10.37216	13.67906	6.510903	408	-2.99	1.75	11.13	-15.29
409	10.40057	13.65949	6.542056	409	-2.98	1.76	11.14	-15.28
410	10.42898	13.66928	6.542056	410	-2.98	1.75	11.14	-15.29
411	10.38636	13.65949	6.52648	411	-2.98	1.75	11.15	-15.28
412	10.38636	13.66928	6.52648	412	-2.98	1.75	11.16	-15.28
413	10.40057	13.65949	6.510903	413	-2.98	1.75	11.16	-15.28
414	10.38636	13.66928	6.510903	414	-2.97	1.76	11.17	-15.27
415	10.40057	13.65949	6.479751	415	-2.97	1.76	11.17	-15.27
416	10.40057	13.66928	6.52648	416	-2.96	1.76	11.19	-15.26
417	10.37216	13.67906	6.588785	417	-2.97	1.75	11.18	-15.27
418	10.34375	13.67906	6.557632	418	-2.98	1.74	11.19	-15.27
419	10.35795	13.63992	6.479751	419	-2.98	1.74	11.19	-15.27
420	10.34375	13.63992	6.464174	420	-2.98	1.74	11.19	-15.27
421	10.41477	13.63992	6.464174	421	-2.97	1.74	11.19	-15.27
422	10.38636	13.63992	6.448598	422	-2.97	1.74	11.2	-15.26
423	10.32955	13.61057	6.448598	423	-2.98	1.74	11.2	-15.26
424	10.32955	13.63014	6.510903	424	-2.97	1.74	11.21	-15.26
425	10.35795	13.63014	6.464174	425	-2.97	1.74	11.22	-15.26
426	10.34375	13.62035	6.401869	426	-2.97	1.74	11.22	-15.25
427	10.32955	13.64971	6.417445	427	-2.97	1.74	11.23	-15.25
428	10.32955	13.65949	6.417445	428	-2.97	1.74	11.24	-15.25
429	10.31534	13.64971	6.448598	429	-2.98	1.73	11.24	-15.25
430	10.31534	13.63014	6.464174	430	-2.98	1.72	11.25	-15.26
431	10.25852	13.591	6.479751	431	-2.99	1.72	11.25	-15.25
432	10.32955	13.63014	6.464174	432	-2.99	1.72	11.26	-15.25
433	10.32955	13.62035	6.448598	433	-2.98	1.73	11.28	-15.24
434	10.27273	13.61057	6.495327	434	-2.98	1.73	11.29	-15.24
435	10.28693	13.60078	6.510903	435	-2.98	1.73	11.3	-15.24
436	10.27273	13.61057	6.495327	436	-2.98	1.73	11.3	-15.24
437	10.24432	13.63014	6.479751	437	-2.97	1.73	11.31	-15.23
438	10.25852	13.63014	6.495327	438	-2.97	1.74	11.32	-15.23
439	10.25852	13.64971	6.495327	439	-2.96	1.73	11.33	-15.23
440	10.25852	13.63014	6.401869	440	-2.97	1.73	11.34	-15.23
441	10.30114	13.61057	6.401869	441	-2.97	1.73	11.34	-15.23
442	10.25852	13.60078	6.464174	442	-2.96	1.73	11.35	-15.21
443	10.25852	13.591	6.464174	443	-2.97	1.73	11.36	-15.21
444	10.31534	13.62035	6.433022	444	-2.97	1.72	11.38	-15.21
445	10.30114	13.63014	6.417445	445	-2.97	1.71	11.38	-15.21
446	10.27273	13.65949	6.464174	446	-2.97	1.72	11.4	-15.21
447	10.24432	13.62035	6.479751	447	-2.97	1.72	11.41	-15.21

448	10.25852	13.61057	6.510903	448	-2.97	1.71	11.41	-15.2
449	10.2017	13.61057	6.448598	449	-2.97	1.71	11.41	-15.21
450	10.15909	13.58121	6.448598	450	-2.97	1.71	11.42	-15.21
451	10.14489	13.591	6.464174	451	-2.96	1.71	11.43	-15.2
452	10.13068	13.591	6.433022	452	-2.96	1.71	11.44	-15.19
453	10.10227	13.591	6.479751	453	-2.96	1.7	11.44	-15.2
454	10.14489	13.63014	6.464174	454	-2.96	1.7	11.44	-15.2
455	10.1733	13.64971	6.464174	455	-2.96	1.7	11.44	-15.2
456	10.1875	13.62035	6.448598	456	-2.95	1.7	11.44	-15.21
457	10.1733	13.61057	6.479751	457	-2.96	1.7	11.44	-15.21
458	10.15909	13.55186	6.510903	458	-2.96	1.7	11.44	-15.22
459	10.15909	13.5225	6.52648	459	-2.95	1.7	11.44	-15.22
460	10.15909	13.591	6.52648	460	-2.95	1.7	11.44	-15.22
461	10.13068	13.60078	6.464174	461	-2.96	1.69	11.43	-15.22
462	10.11648	13.591	6.464174	462	-2.95	1.7	11.43	-15.22
463	10.11648	13.63014	6.479751	463	-2.95	1.7	11.44	-15.22
464	10.1733	13.57143	6.464174	464	-2.95	1.7	11.44	-15.22
465	10.11648	13.5225	6.479751	465	-2.95	1.7	11.45	-15.22
466	10.08807	13.51272	6.448598	466	-2.95	1.7	11.45	-15.22
467	10.07386	13.53229	6.495327	467	-2.96	1.69	11.45	-15.21
468	10.08807	13.56164	6.479751	468	-2.96	1.69	11.46	-15.2
469	10.10227	13.55186	6.448598	469	-2.96	1.69	11.46	-15.2
470	10.14489	13.54207	6.433022	470	-2.97	1.68	11.45	-15.2
471	10.14489	13.56164	6.433022	471	-2.97	1.68	11.45	-15.19
472	10.14489	13.54207	6.433022	472	-2.97	1.68	11.46	-15.19
473	10.07386	13.53229	6.448598	473	-2.97	1.68	11.46	-15.19
474	10.07386	13.55186	6.479751	474	-2.96	1.68	11.46	-15.18
475	10.04545	13.56164	6.479751	475	-2.96	1.68	11.46	-15.18
476	10.07386	13.5225	6.448598	476	-2.95	1.69	11.48	-15.17
477	10.11648	13.51272	6.464174	477	-2.94	1.69	11.48	-15.15
478	10.05966	13.48337	6.433022	478	-2.95	1.68	11.48	-15.16
479	10.03125	13.4638	6.464174	479	-2.95	1.68	11.47	-15.17
480	10.01705	13.49315	6.495327	480	-2.95	1.67	11.48	-15.17
481	10.03125	13.50294	6.52648	481	-2.95	1.67	11.48	-15.17
482	10.03125	13.51272	6.495327	482	-2.94	1.67	11.48	-15.17
483	10.01705	13.49315	6.479751	483	-2.94	1.67	11.48	-15.16
484	10.03125	13.47358	6.433022	484	-2.94	1.67	11.49	-15.16
485	10.07386	13.48337	6.479751	485	-2.94	1.67	11.49	-15.16
486	10.08807	13.51272	6.479751	486	-2.93	1.67	11.5	-15.16
487	10.07386	13.5225	6.479751	487	-2.93	1.67	11.5	-15.16
488	10.08807	13.53229	6.448598	488	-2.92	1.68	11.51	-15.15
489	10.04545	13.54207	6.417445	489	-2.93	1.67	11.5	-15.16
490	10.00284	13.5225	6.448598	490	-2.93	1.67	11.5	-15.15
491	10.00284	13.53229	6.448598	491	-2.92	1.67	11.5	-15.14
492	10.01705	13.56164	6.510903	492	-2.92	1.67	11.5	-15.14

493	9.960227	13.51272	6.479751	493	-2.93	1.66	11.49	-15.15
494	9.974432	13.48337	6.510903	494	-2.93	1.66	11.48	-15.15
495	9.988636	13.49315	6.495327	495	-2.93	1.65	11.47	-15.15
496	9.960227	13.51272	6.464174	496	-2.94	1.64	11.46	-15.16
497	9.974432	13.5225	6.433022	497	-2.93	1.65	11.46	-15.15
498	9.988636	13.51272	6.464174	498	-2.93	1.65	11.45	-15.15
499	9.946023	13.53229	6.495327	499	-2.93	1.65	11.45	-15.14
500	9.946023	13.5225	6.448598	500	-2.92	1.66	11.45	-15.15
501	9.960227	13.51272	6.464174	501	-2.91	1.66	11.45	-15.15
502	9.917614	13.48337	6.464174	502	-2.92	1.65	11.44	-15.16
503	9.931818	13.48337	6.479751	503	-2.92	1.65	11.43	-15.16
504	9.917614	13.48337	6.495327	504	-2.92	1.65	11.42	-15.17
505	9.903409	13.45401	6.464174	505	-2.92	1.65	11.42	-15.17
506	9.931818	13.4638	6.448598	506	-2.93	1.64	11.41	-15.18
507	9.903409	13.49315	6.401869	507	-2.93	1.65	11.41	-15.18
508	9.903409	13.45401	6.417445	508	-2.93	1.64	11.41	-15.18
509	9.889205	13.42466	6.401869	509	-2.93	1.64	11.41	-15.18
510	9.875	13.45401	6.417445	510	-2.93	1.64	11.41	-15.18
511	9.889205	13.41487	6.417445	511	-2.92	1.65	11.41	-15.17
512	9.875	13.41487	6.35514	512	-2.93	1.65	11.41	-15.17
513	9.875	13.43444	6.370717	513	-2.94	1.64	11.4	-15.17
514	9.860795	13.38552	6.401869	514	-2.94	1.64	11.4	-15.16
515	9.832386	13.36595	6.417445	515	-2.94	1.64	11.4	-15.16
516	9.860795	13.3953	6.448598	516	-2.94	1.63	11.39	-15.16
517	9.832386	13.40509	6.417445	517	-2.94	1.64	11.4	-15.15
518	9.846591	13.3953	6.401869	518	-2.93	1.64	11.4	-15.15
519	9.818182	13.43444	6.417445	519	-2.93	1.64	11.4	-15.14
520	9.832386	13.44423	6.386293	520	-2.94	1.63	11.4	-15.14
521	9.789773	13.41487	6.386293	521	-2.93	1.63	11.4	-15.14
522	9.775568	13.42466	6.401869	522	-2.93	1.63	11.4	-15.14
523	9.775568	13.40509	6.370717	523	-2.93	1.63	11.4	-15.14
524	9.747159	13.40509	6.417445	524	-2.93	1.63	11.39	-15.14
525	9.747159	13.41487	6.448598	525	-2.93	1.63	11.4	-15.14
526	9.761364	13.40509	6.433022	526	-2.92	1.63	11.4	-15.13
527	9.775568	13.37573	6.401869	527	-2.93	1.62	11.4	-15.13
528	9.761364	13.36595	6.401869	528	-2.92	1.62	11.4	-15.13
529	9.747159	13.3953	6.386293	529	-2.92	1.63	11.4	-15.13
530	9.747159	13.3953	6.339564	530	-2.93	1.62	11.39	-15.13
531	9.761364	13.36595	6.370717	531	-2.92	1.61	11.39	-15.13
532	9.761364	13.35616	6.401869	532	-2.92	1.62	11.4	-15.13
533	9.761364	13.30724	6.433022	533	-2.91	1.62	11.4	-15.12
534	9.747159	13.32681	6.417445	534	-2.91	1.62	11.4	-15.12
535	9.704545	13.33659	6.401869	535	-2.91	1.62	11.41	-15.12
536	9.71875	13.32681	6.386293	536	-2.91	1.62	11.41	-15.12
537	9.676136	13.30724	6.35514	537	-2.92	1.61	11.41	-15.12

538	9.690341	13.31703	6.35514	538	-2.92	1.6	11.41	-15.13
539	9.661932	13.32681	6.417445	539	-2.92	1.6	11.42	-15.13
540	9.661932	13.33659	6.417445	540	-2.92	1.61	11.42	-15.12
541	9.661932	13.32681	6.386293	541	-2.92	1.6	11.42	-15.13
542	9.690341	13.28767	6.401869	542	-2.92	1.6	11.42	-15.14
543	9.704545	13.29746	6.417445	543	-2.92	1.6	11.42	-15.13
544	9.690341	13.29746	6.417445	544	-2.93	1.59	11.42	-15.14
545	9.690341	13.27789	6.433022	545	-2.92	1.59	11.42	-15.13
546	9.71875	13.29746	6.417445	546	-2.92	1.59	11.41	-15.13
547	9.676136	13.28767	6.433022	547	-2.92	1.59	11.41	-15.13
548	9.633523	13.28767	6.417445	548	-2.92	1.59	11.4	-15.13
549	9.619318	13.28767	6.401869	549	-2.92	1.58	11.4	-15.14
550	9.619318	13.28767	6.386293	550	-2.92	1.58	11.39	-15.14
551	9.605114	13.25832	6.401869	551	-2.92	1.58	11.39	-15.15
552	9.619318	13.22896	6.433022	552	-2.92	1.58	11.39	-15.14
553	9.605114	13.23875	6.417445	553	-2.92	1.59	11.4	-15.13
554	9.605114	13.18982	6.401869	554	-2.92	1.58	11.39	-15.14
555	9.633523	13.21918	6.386293	555	-2.93	1.58	11.39	-15.14
556	9.661932	13.20939	6.386293	556	-2.92	1.58	11.39	-15.13
557	9.633523	13.15068	6.417445	557	-2.93	1.57	11.38	-15.14
558	9.576705	13.18982	6.417445	558	-2.93	1.57	11.39	-15.14
559	9.605114	13.19961	6.417445	559	-2.93	1.57	11.38	-15.13
560	9.619318	13.18982	6.401869	560	-2.93	1.57	11.38	-15.13
561	9.619318	13.18982	6.464174	561	-2.93	1.57	11.37	-15.13
562	9.605114	13.18004	6.370717	562	-2.93	1.57	11.37	-15.13
563	9.5625	13.15068	6.370717	563	-2.92	1.57	11.38	-15.12
564	9.519886	13.15068	6.386293	564	-2.92	1.57	11.38	-15.13
565	9.505682	13.18004	6.433022	565	-2.92	1.57	11.39	-15.12
566	9.519886	13.17025	6.401869	566	-2.92	1.57	11.39	-15.12
567	9.491477	13.17025	6.35514	567	-2.92	1.57	11.39	-15.12
568	9.477273	13.17025	6.386293	568	-2.92	1.56	11.4	-15.13
569	9.519886	13.17025	6.448598	569	-2.92	1.56	11.41	-15.12
570	9.519886	13.15068	6.464174	570	-2.91	1.57	11.42	-15.12
571	9.519886	13.18004	6.448598	571	-2.91	1.57	11.43	-15.12
572	9.448864	13.17025	6.401869	572	-2.91	1.57	11.43	-15.11
573	9.40625	13.1409	6.417445	573	-2.92	1.56	11.44	-15.12
574	9.40625	13.1409	6.433022	574	-2.92	1.56	11.44	-15.12
575	9.420455	13.12133	6.370717	575	-2.91	1.56	11.45	-15.12
576	9.377841	13.10176	6.386293	576	-2.91	1.56	11.46	-15.12
577	9.363636	13.13112	6.386293	577	-2.91	1.56	11.47	-15.12
578	9.377841	13.1409	6.339564	578	-2.92	1.56	11.47	-15.13
579	9.420455	13.13112	6.370717	579	-2.92	1.56	11.48	-15.13
580	9.448864	13.15068	6.35514	580	-2.92	1.55	11.49	-15.13
581	9.392045	13.10176	6.386293	581	-2.92	1.55	11.5	-15.13
582	9.349432	13.10176	6.370717	582	-2.92	1.55	11.51	-15.13

583	9.363636	13.11155	6.417445	583	-2.92	1.55	11.52	-15.13
584	9.363636	13.10176	6.433022	584	-2.92	1.55	11.53	-15.13
585	9.335227	13.06262	6.417445	585	-2.92	1.54	11.53	-15.13
586	9.321023	13.04305	6.386293	586	-2.92	1.54	11.54	-15.13
587	9.321023	13.02348	6.35514	587	-2.93	1.54	11.54	-15.13
588	9.321023	13.0137	6.386293	588	-2.92	1.55	11.55	-15.12
589	9.335227	13.03327	6.35514	589	-2.92	1.54	11.56	-15.12
590	9.335227	12.99413	6.35514	590	-2.93	1.54	11.57	-15.12
591	9.264205	13.02348	6.308411	591	-2.92	1.54	11.58	-15.12
592	9.221591	13.04305	6.339564	592	-2.92	1.54	11.59	-15.12
593	9.264205	13.0137	6.370717	593	-2.92	1.54	11.6	-15.11
594	9.321023	12.98434	6.401869	594	-2.92	1.53	11.6	-15.12
595	9.278409	13.00391	6.339564	595	-2.93	1.53	11.61	-15.13
596	9.278409	13.02348	6.339564	596	-2.92	1.53	11.62	-15.13
597	9.235795	13.0137	6.401869	597	-2.92	1.53	11.63	-15.14
598	9.235795	13.0137	6.370717	598	-2.92	1.54	11.64	-15.14
599	9.207386	13.00391	6.308411	599	-2.91	1.54	11.65	-15.14
600	9.264205	12.96477	6.35514	600	-2.92	1.53	11.66	-15.15
601	9.235795	12.94521	6.370717	601	-2.93	1.53	11.66	-15.15
602	9.136364	12.96477	6.339564	602	-2.92	1.53	11.67	-15.15
603	9.178977	12.98434	6.339564	603	-2.93	1.53	11.68	-15.15
604	9.221591	12.95499	6.339564	604	-2.93	1.53	11.69	-15.16
605	9.235795	12.90607	6.35514	605	-2.93	1.53	11.7	-15.16
606	9.221591	12.87671	6.339564	606	-2.93	1.52	11.71	-15.16
607	9.207386	12.87671	6.323988	607	-2.94	1.52	11.71	-15.15
608	9.178977	12.87671	6.277259	608	-2.94	1.52	11.72	-15.15
609	9.178977	12.87671	6.308411	609	-2.94	1.52	11.73	-15.15
610	9.164773	12.86693	6.308411	610	-2.94	1.51	11.73	-15.14
611	9.09375	12.90607	6.308411	611	-2.94	1.51	11.73	-15.14
612	9.09375	12.90607	6.277259	612	-2.94	1.51	11.74	-15.14
613	9.136364	12.85714	6.308411	613	-2.94	1.51	11.74	-15.13
614	9.136364	12.8865	6.35514	614	-2.94	1.51	11.74	-15.13
615	9.122159	12.85714	6.277259	615	-2.94	1.51	11.74	-15.14
616	9.122159	12.83757	6.246106	616	-2.94	1.51	11.75	-15.13
617	9.107955	12.85714	6.261682	617	-2.93	1.5	11.75	-15.13
618	9.065341	12.86693	6.308411	618	-2.94	1.5	11.75	-15.14
619	9.065341	12.84736	6.339564	619	-2.94	1.49	11.74	-15.15
620	9.079545	12.818	6.323988	620	-2.94	1.48	11.74	-15.16
621	9.051136	12.80822	6.292835	621	-2.94	1.48	11.74	-15.16
622	9.022727	12.818	6.277259	622	-2.94	1.48	11.74	-15.16
623	9.008523	12.84736	6.292835	623	-2.93	1.49	11.75	-15.15
624	9.022727	12.82779	6.261682	624	-2.93	1.49	11.75	-15.15
625	9.008523	12.85714	6.277259	625	-2.93	1.49	11.75	-15.14
626	9.022727	12.85714	6.308411	626	-2.94	1.48	11.74	-15.15
627	8.951705	12.818	6.323988	627	-2.94	1.49	11.74	-15.14

628	8.965909	12.818	6.277259	628	-2.94	1.48	11.74	-15.14
629	9.022727	12.79843	6.246106	629	-2.93	1.48	11.74	-15.14
630	9.008523	12.79843	6.246106	630	-2.93	1.48	11.74	-15.15
631	9.008523	12.73973	6.292835	631	-2.94	1.48	11.74	-15.16
632	8.965909	12.7593	6.277259	632	-2.93	1.48	11.74	-15.15
633	8.909091	12.74951	6.277259	633	-2.93	1.48	11.74	-15.14
634	8.894886	12.74951	6.339564	634	-2.93	1.48	11.74	-15.14
635	8.894886	12.74951	6.323988	635	-2.93	1.48	11.74	-15.14
636	8.894886	12.74951	6.261682	636	-2.93	1.48	11.74	-15.15
637	8.923295	12.73973	6.323988	637	-2.93	1.48	11.73	-15.16
638	8.923295	12.72016	6.277259	638	-2.93	1.48	11.74	-15.16
639	8.880682	12.70059	6.23053	639	-2.92	1.48	11.74	-15.16
640	8.838068	12.70059	6.23053	640	-2.93	1.48	11.74	-15.16
641	8.866477	12.6908	6.246106	641	-2.93	1.48	11.74	-15.17
642	8.880682	12.71037	6.246106	642	-2.93	1.48	11.73	-15.17
643	8.852273	12.68102	6.246106	643	-2.94	1.47	11.73	-15.18
644	8.838068	12.70059	6.23053	644	-2.94	1.47	11.73	-15.18
645	8.852273	12.70059	6.23053	645	-2.94	1.46	11.72	-15.18
646	8.880682	12.68102	6.199377	646	-2.94	1.47	11.72	-15.18
647	8.866477	12.6908	6.214953	647	-2.95	1.46	11.72	-15.19
648	8.809659	12.68102	6.214953	648	-2.95	1.46	11.72	-15.19
649	8.809659	12.65166	6.23053	649	-2.95	1.46	11.71	-15.19
650	8.78125	12.65166	6.23053	650	-2.95	1.46	11.72	-15.19
651	8.795455	12.67123	6.246106	651	-2.95	1.46	11.71	-15.19
652	8.809659	12.66145	6.23053	652	-2.96	1.46	11.71	-15.19
653	8.809659	12.66145	6.199377	653	-2.96	1.46	11.7	-15.19
654	8.767045	12.64188	6.199377	654	-2.96	1.45	11.69	-15.19
655	8.681818	12.63209	6.168224	655	-2.96	1.45	11.69	-15.19
656	8.696023	12.63209	6.152648	656	-2.96	1.45	11.69	-15.19
657	8.767045	12.63209	6.199377	657	-2.96	1.45	11.68	-15.19
658	8.752841	12.61252	6.183801	658	-2.97	1.44	11.67	-15.2
659	8.681818	12.60274	6.152648	659	-2.97	1.44	11.67	-15.2
660	8.710227	12.57339	6.121495	660	-2.96	1.45	11.67	-15.19
661	8.738636	12.60274	6.168224	661	-2.96	1.45	11.67	-15.19
662	8.710227	12.62231	6.214953	662	-2.97	1.44	11.66	-15.2
663	8.710227	12.57339	6.183801	663	-2.97	1.44	11.66	-15.2
664	8.710227	12.52446	6.199377	664	-2.97	1.44	11.66	-15.19
665	8.667614	12.54403	6.168224	665	-2.97	1.44	11.65	-15.2
666	8.639205	12.53425	6.168224	666	-2.97	1.43	11.65	-15.2
667	8.610795	12.51468	6.152648	667	-2.97	1.44	11.65	-15.2
668	8.625	12.50489	6.137072	668	-2.97	1.44	11.65	-15.2
669	8.653409	12.51468	6.168224	669	-2.97	1.43	11.64	-15.2
670	8.639205	12.53425	6.137072	670	-2.97	1.43	11.64	-15.2
671	8.568182	12.53425	6.137072	671	-2.98	1.42	11.64	-15.2
672	8.553977	12.53425	6.105919	672	-2.98	1.42	11.64	-15.21

673	8.525568	12.53425	6.043614	673	-2.98	1.42	11.64	-15.21
674	8.553977	12.53425	6.090343	674	-2.98	1.42	11.65	-15.2
675	8.553977	12.49511	6.121495	675	-2.99	1.41	11.64	-15.22
676	8.511364	12.50489	6.121495	676	-2.99	1.41	11.64	-15.22
677	8.482955	12.46575	6.137072	677	-2.99	1.41	11.65	-15.21
678	8.482955	12.45597	6.183801	678	-2.98	1.42	11.66	-15.2
679	8.482955	12.46575	6.121495	679	-2.98	1.42	11.66	-15.2
680	8.511364	12.45597	6.090343	680	-2.99	1.41	11.65	-15.21
681	8.539773	12.4364	6.074766	681	-2.99	1.41	11.65	-15.21
682	8.511364	12.4364	6.137072	682	-3	1.4	11.63	-15.22
683	8.482955	12.4364	6.105919	683	-2.99	1.41	11.64	-15.22
684	8.497159	12.40705	6.074766	684	-3	1.4	11.63	-15.23
685	8.426136	12.41683	6.028037	685	-2.99	1.4	11.63	-15.22
686	8.426136	12.40705	6.090343	686	-2.99	1.4	11.63	-15.21
687	8.482955	12.40705	6.090343	687	-2.99	1.4	11.63	-15.2
688	8.46875	12.40705	6.05919	688	-2.99	1.4	11.62	-15.2
689	8.411932	12.42661	6.074766	689	-2.99	1.39	11.61	-15.2
690	8.426136	12.39726	6.137072	690	-2.99	1.39	11.6	-15.18
691	8.454545	12.38748	6.105919	691	-2.99	1.39	11.6	-15.14
692	8.497159	12.38748	6.105919	692	-2.98	1.4	11.6	-15.09
693	8.440341	12.39726	6.05919	693	-2.98	1.39	11.59	-15.04
694	8.46875	12.38748	6.105919	694	-2.97	1.4	11.59	-14.96
695	8.411932	12.38748	6.121495	695	-2.94	1.42	11.61	-14.87
696	8.383523	12.38748	6.137072	696	-2.92	1.43	11.61	-14.79

HigherRH_exp_15

Experiment type: Higher humidity experiment. This experiment consisted of just an empty petridish. There was not a humidity buffer inside the chamber. The sample was raised 13.3 cm off the chamber floor. Chiller was set to - 15°C. Temperature around the sample was controlled by the chiller. The chamber was pulled to 6 mbar of pressure, and then the vacuum pump was turned off, allowing the chamber to infill with water vapor. Two open gallon sized bag and three open sandwich bags of water ice were placed around the sample.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= atmosphere 3= humidity buffer 4= sample

Mass Min.	Mass	RH Min.	Ch02	Ch03	Ch04	T Min.	Ch01	Ch02	Ch03	Ch04
0	243.87	0	28.17045	24.52055	8.364486	0	9.01	-6.57	-3.91	-17.15
2	243.23	1	22.58807	24.8728	9.890966	1	0.02	-7.72	-4.28	-16.9
4	242.99	2	18.04261	21.1546	9.330218	2	-5.72	-11.31	-5.29	-18.82
6	242.86	3	13.36932	16.25245	9.049844	3	-5.89	-10.47	-6.88	-19.63
8	242.92	4	10.47159	14.08023	9.485981	4	-4.89	-9.08	-7.47	-19.67
10	242.94	5	7.886364	12.19178	9.485981	5	-4.23	-8.53	-7.7	-19.71
12	242.94	6	5.34375	10.19569	8.208723	6	-3.77	-8.03	-7.81	-19.73
14	242.93	7	3.511364	8.51272	6.261682	7	-3.2	-6.99	-7.82	-19.72
16	242.92	8	2.502841	7.358121	4.563863	8	-2.86	-6.39	-7.8	-19.7
18	242.96	9	1.90625	6.497065	3.255452	9	-2.76	-6.07	-7.77	-19.68
20	242.93	10	1.607955	5.861057	2.274143	10	-2.73	-5.88	-7.74	-19.67
22	242.92	11	1.4375	5.499022	1.666667	11	-2.74	-5.75	-7.72	-19.67
24	242.91	12	1.238636	5.293542	1.35514	12	-2.75	-5.68	-7.71	-19.67
26	242.91	13	0.997159	5.283757	1.52648	13	-2.79	-5.69	-7.69	-19.68
28	242.91	14	0.883523	5.391389	1.978193	14	-2.85	-5.65	-7.72	-19.7
30	242.92	15	0.855114	5.499022	2.507788	15	-2.9	-5.6	-7.76	-19.72
32	242.92	16	0.926136	5.567515	2.897196	16	-2.93	-5.56	-7.8	-19.74
34	242.92	17	1.167614	5.684932	3.286604	17	-2.94	-5.48	-7.84	-19.75
36	242.92	18	1.551136	5.978474	3.862928	18	-2.89	-5.41	-7.85	-19.76
38	242.92	19	1.963068	6.252446	4.423676	19	-2.88	-5.41	-7.87	-19.77
40	242.93	20	2.275568	6.428571	4.82866	20	-2.87	-5.42	-7.89	-19.78
42	242.93	21	2.53125	6.585127	5.124611	21	-2.87	-5.44	-7.92	-19.8
44	242.93	22	2.886364	6.761252	5.373832	22	-2.87	-5.45	-7.94	-19.82
46	242.93	23	3.184659	6.917808	5.638629	23	-2.86	-5.47	-7.96	-19.83
48	242.94	24	3.369318	7.035225	5.841121	24	-2.86	-5.49	-7.98	-19.85
50	242.94	25	3.596591	7.152642	6.012461	25	-2.86	-5.5	-7.99	-19.85
52	242.94	26	3.852273	7.270059	6.214953	26	-2.86	-5.52	-8	-19.86
54	242.94	27	4.065341	7.387476	6.370717	27	-2.86	-5.53	-8.01	-19.86
56	242.95	28	4.278409	7.553816	6.542056	28	-2.85	-5.55	-8.01	-19.86
58	242.95	29	4.491477	7.681018	6.697819	29	-2.85	-5.56	-8.02	-19.86
60	242.95	30	4.690341	7.759295	6.838006	30	-2.85	-5.58	-8.02	-19.86
62	242.96	31	4.917614	7.827789	6.962617	31	-2.85	-5.6	-8.03	-19.86
64	242.96	32	5.073864	7.935421	7.133956	32	-2.85	-5.62	-8.03	-19.86
66	242.96	33	5.230114	8.052838	7.258567	33	-2.85	-5.64	-8.04	-19.86
68	242.96	34	5.400568	8.121331	7.320872	34	-2.85	-5.65	-8.04	-19.85
70	242.97	35	5.571023	8.1409	7.429907	35	-2.85	-5.67	-8.04	-19.85
72	242.97	36	5.755682	8.189824	7.58567	36	-2.85	-5.69	-8.04	-19.84
74	242.97	37	5.940341	8.258317	7.679128	37	-2.85	-5.71	-8.04	-19.84
76	242.97	38	6.125	8.336595	7.757009	38	-2.86	-5.73	-8.05	-19.84
78	242.98	39	6.323864	8.424658	7.819315	39	-2.85	-5.74	-8.04	-19.83
80	242.98	40	6.522727	8.51272	7.943925	40	-2.86	-5.77	-8.05	-19.83
82	242.98	41	6.664773	8.590998	8.05296	41	-2.85	-5.78	-8.04	-19.82
84	242.99	42	6.821023	8.679061	8.130841	42	-2.85	-5.8	-8.04	-19.81

86	242.99	43	6.977273	8.679061	8.208723	43	-2.85	-5.82	-8.04	-19.8
88	242.99	44	7.076705	8.757339	8.255452	44	-2.85	-5.85	-8.04	-19.8
90	243	45	7.176136	8.816047	8.364486	45	-2.86	-5.88	-8.03	-19.8
92	242.94	46	7.275568	8.855186	8.411215	46	-2.87	-5.91	-8.03	-19.8
94	242.93	47	7.389205	8.825832	8.426791	47	-2.87	-5.94	-8.02	-19.79
96	243	48	7.460227	8.825832	8.426791	48	-2.87	-5.96	-8.01	-19.78
98	242.99	49	7.573864	8.864971	8.489097	49	-2.88	-5.98	-8	-19.77
100	243	50	7.715909	8.90411	8.566978	50	-2.88	-6.01	-8	-19.76
102	243.01	51	7.772727	8.923679	8.613707	51	-2.89	-6.04	-8	-19.76
104	243.02	52	7.857955	8.953033	8.660436	52	-2.89	-6.06	-7.99	-19.75
106	243.02	53	7.971591	8.982387	8.691589	53	-2.9	-6.08	-7.99	-19.75
108	243.02	54	8.113636	9.011742	8.676012	54	-2.91	-6.12	-8	-19.75
110	243.02	55	8.184659	9.060665	8.676012	55	-2.91	-6.13	-7.99	-19.74
112	243.03	56	8.269886	9.080235	8.722741	56	-2.92	-6.16	-7.99	-19.74
114	243.03	57	8.355114	9.158513	8.800623	57	-2.92	-6.18	-7.99	-19.73
116	243.04	58	8.46875	9.217221	8.862928	58	-2.93	-6.21	-7.99	-19.72
118	243.04	59	8.539773	9.227006	8.894081	59	-2.93	-6.23	-7.98	-19.72
120	243.04	60	8.582386	9.227006	8.925234	60	-2.93	-6.25	-7.98	-19.71
122	243.04	61	8.696023	9.27593	8.971963	61	-2.93	-6.27	-7.97	-19.7
124	243.05	62	8.795455	9.305284	8.956386	62	-2.93	-6.29	-7.97	-19.69
126	243.05	63	8.838068	9.285714	8.987539	63	-2.94	-6.32	-7.97	-19.69
128	243.05	64	8.880682	9.354207	9.049844	64	-2.94	-6.34	-7.97	-19.69
130	243.06	65	8.923295	9.393346	9.127726	65	-2.95	-6.36	-7.97	-19.68
132	243.06	66	9.008523	9.383562	9.143302	66	-2.94	-6.37	-7.96	-19.67
134	243.06	67	9.051136	9.383562	9.221184	67	-2.95	-6.4	-7.96	-19.67
136	243.06	68	9.136364	9.432485	9.252336	68	-2.96	-6.43	-7.96	-19.67
138	243.07	69	9.178977	9.44227	9.221184	69	-2.97	-6.45	-7.96	-19.66
140	243.07	70	9.207386	9.491194	9.23676	70	-2.96	-6.46	-7.95	-19.65
142	243.07	71	9.306818	9.510763	9.252336	71	-2.97	-6.49	-7.96	-19.65
144	243.08	72	9.377841	9.530333	9.299065	72	-2.97	-6.5	-7.95	-19.64
146	243.08	73	9.463068	9.530333	9.376947	73	-2.98	-6.53	-7.94	-19.63
148	243.08	74	9.477273	9.579256	9.392523	74	-2.98	-6.55	-7.94	-19.63
150	243.09	75	9.519886	9.608611	9.4081	75	-2.98	-6.56	-7.93	-19.62
152	243.09	76	9.548295	9.62818	9.439252	76	-2.98	-6.57	-7.93	-19.61
154	243.09	77	9.619318	9.677104	9.485981	77	-2.99	-6.59	-7.93	-19.61
156	243.09	78	9.647727	9.677104	9.53271	78	-2.99	-6.62	-7.92	-19.6
158	243.1	79	9.676136	9.716243	9.53271	79	-2.99	-6.63	-7.92	-19.59
160	243.1	80	9.761364	9.765166	9.563863	80	-3	-6.66	-7.92	-19.59
162	243.1	81	9.803977	9.755382	9.563863	81	-3	-6.67	-7.91	-19.57
164	243.1	82	9.860795	9.823875	9.595016	82	-3	-6.69	-7.91	-19.58
166	243.11	83	9.889205	9.853229	9.579439	83	-3	-6.7	-7.9	-19.57
168	243.11	84	9.946023	9.863014	9.53271	84	-3	-6.72	-7.9	-19.56
170	243.11	85	9.931818	9.872798	9.579439	85	-3	-6.73	-7.89	-19.55
172	243.12	86	9.946023	9.902153	9.579439	86	-3.01	-6.75	-7.89	-19.54
174	243.12	87	10.00284	9.931507	9.595016	87	-3.01	-6.76	-7.89	-19.54

176	243.12	88	10.10227	9.941292	9.610592	88	-3.02	-6.78	-7.88	-19.53
178	243.12	89	10.14489	9.970646	9.610592	89	-3.02	-6.79	-7.88	-19.52
180	243.13	90	10.15909	9.911937	9.626168	90	-3.02	-6.81	-7.88	-19.52
182	243.13	91	10.1875	9.911937	9.657321	91	-3.03	-6.82	-7.87	-19.51
184	243.13	92	10.21591	9.980431	9.672897	92	-3.02	-6.83	-7.86	-19.5
186	243.13	93	10.21591	10.01957	9.657321	93	-3.03	-6.85	-7.86	-19.49
188	243.14	94	10.24432	10.01957	9.657321	94	-3.03	-6.86	-7.86	-19.48
190	243.14	95	10.21591	10.03914	9.672897	95	-3.03	-6.87	-7.85	-19.48
192	243.14	96	10.2017	10.05871	9.688474	96	-3.04	-6.88	-7.85	-19.47
194	243.14	97	10.25852	10.03914	9.688474	97	-3.05	-6.9	-7.85	-19.47
196	243.15	98	10.24432	10.01957	9.688474	98	-3.04	-6.91	-7.84	-19.46
198	243.15	99	10.28693	10.04892	9.719626	99	-3.05	-6.92	-7.84	-19.45
200	243.15	100	10.32955	10.04892	9.766355	100	-3.05	-6.93	-7.83	-19.44
202	243.16	101	10.32955	10.04892	9.735202	101	-3.05	-6.94	-7.83	-19.43
204	243.16	102	10.37216	10.07828	9.688474	102	-3.06	-6.95	-7.82	-19.42
206	243.16	103	10.41477	10.05871	9.688474	103	-3.07	-6.97	-7.83	-19.42
208	243.16	104	10.42898	10.04892	9.719626	104	-3.06	-6.96	-7.81	-19.41
210	243.17	105	10.44318	10.08806	9.688474	105	-3.07	-6.98	-7.81	-19.4
212	243.17	106	10.42898	10.13699	9.672897	106	-3.08	-6.99	-7.82	-19.4
214	243.17	107	10.4858	10.10763	9.70405	107	-3.08	-7	-7.81	-19.39
216	243.17	108	10.5142	10.11742	9.735202	108	-3.08	-7.01	-7.81	-19.39
218	243.18	109	10.5	10.14677	9.735202	109	-3.09	-7.02	-7.8	-19.38
220	243.18	110	10.5142	10.15656	9.750779	110	-3.08	-7.02	-7.8	-19.37
222	243.18	111	10.5142	10.15656	9.735202	111	-3.09	-7.03	-7.79	-19.36
224	243.18	112	10.54261	10.18591	9.70405	112	-3.09	-7.04	-7.79	-19.35
226	243.19	113	10.58523	10.19569	9.719626	113	-3.08	-7.03	-7.78	-19.34
228	243.19	114	10.58523	10.18591	9.781931	114	-3.09	-7.05	-7.78	-19.33
230	243.19	115	10.61364	10.18591	9.813084	115	-3.1	-7.06	-7.78	-19.33
232	243.19	116	10.65625	10.23483	9.781931	116	-3.1	-7.07	-7.77	-19.32
234	243.2	117	10.65625	10.22505	9.766355	117	-3.1	-7.07	-7.77	-19.31
236	243.2	118	10.68466	10.22505	9.735202	118	-3.1	-7.08	-7.76	-19.3
238	243.2	119	10.72727	10.24462	9.70405	119	-3.11	-7.1	-7.76	-19.3
240	243.2	120	10.76989	10.22505	9.688474	120	-3.1	-7.1	-7.75	-19.29
242	243.21	121	10.74148	10.27397	9.688474	121	-3.1	-7.1	-7.75	-19.28
244	243.21	122	10.74148	10.31311	9.70405	122	-3.1	-7.1	-7.74	-19.26
246	243.21	123	10.78409	10.34247	9.781931	123	-3.11	-7.11	-7.73	-19.26
248	243.21	124	10.8267	10.35225	9.781931	124	-3.1	-7.11	-7.73	-19.25
250	243.22	125	10.8267	10.34247	9.781931	125	-3.1	-7.13	-7.73	-19.24
252	243.22	126	10.88352	10.34247	9.797508	126	-3.11	-7.14	-7.73	-19.24
254	243.22	127	10.88352	10.34247	9.813084	127	-3.11	-7.15	-7.72	-19.23
256	243.22	128	10.88352	10.35225	9.797508	128	-3.12	-7.16	-7.72	-19.22
258	243.23	129	10.94034	10.36204	9.813084	129	-3.11	-7.16	-7.71	-19.21
260	243.23	130	10.99716	10.39139	9.797508	130	-3.11	-7.17	-7.7	-19.2
262	243.23	131	10.96875	10.39139	9.813084	131	-3.13	-7.19	-7.71	-19.21
264	243.23	132	10.96875	10.3816	9.797508	132	-3.12	-7.19	-7.7	-19.19

266	243.23	133	10.95455	10.37182	9.813084	133	-3.12	-7.19	-7.69	-19.18
268	243.24	134	10.98295	10.42074	9.859813	134	-3.12	-7.2	-7.69	-19.18
270	243.24	135	11.03977	10.42074	9.844237	135	-3.13	-7.21	-7.68	-19.16
272	243.24	136	11.05398	10.40117	9.766355	136	-3.13	-7.22	-7.68	-19.15
274	243.24	137	11.08239	10.41096	9.82866	137	-3.13	-7.23	-7.67	-19.15
276	243.25	138	11.1108	10.42074	9.875389	138	-3.13	-7.23	-7.67	-19.14
278	243.25	139	11.1392	10.45988	9.859813	139	-3.13	-7.24	-7.66	-19.13
280	243.25	140	11.15341	10.4501	9.813084	140	-3.13	-7.25	-7.65	-19.12
282	243.25	141	11.21023	10.45988	9.859813	141	-3.13	-7.26	-7.65	-19.11
284	243.26	142	11.18182	10.46967	9.890966	142	-3.13	-7.26	-7.65	-19.1
286	243.26	143	11.09659	10.48924	9.844237	143	-3.13	-7.27	-7.64	-19.1
288	243.26	144	11.125	10.50881	9.82866	144	-3.13	-7.28	-7.64	-19.09
290	243.26	145	11.23864	10.51859	9.813084	145	-3.13	-7.28	-7.64	-19.09
292	243.26	146	11.25284	10.50881	9.813084	146	-3.13	-7.3	-7.64	-19.08
294	243.27	147	11.21023	10.54795	9.797508	147	-3.14	-7.31	-7.64	-19.08
296	243.27	148	11.23864	10.52838	9.82866	148	-3.14	-7.32	-7.63	-19.07
298	243.27	149	11.28125	10.58708	9.844237	149	-3.13	-7.32	-7.62	-19.05
300	243.27	150	11.29545	10.58708	9.859813	150	-3.14	-7.33	-7.62	-19.04
302	243.27	151	11.35227	10.55773	9.875389	151	-3.14	-7.34	-7.62	-19.04
304	243.28	152	11.33807	10.58708	9.875389	152	-3.13	-7.34	-7.61	-19.03
306	243.28	153	11.38068	10.55773	9.875389	153	-3.13	-7.35	-7.6	-19.03
308	243.28	154	11.4517	10.54795	9.844237	154	-3.13	-7.36	-7.59	-19.01
310	243.28	155	11.46591	10.5773	9.859813	155	-3.14	-7.37	-7.59	-19.01
312	243.29	156	11.49432	10.60665	9.844237	156	-3.14	-7.38	-7.59	-19.01
314	243.29	157	11.49432	10.62622	9.813084	157	-3.15	-7.39	-7.59	-19
316	243.29	158	11.50852	10.64579	9.82866	158	-3.14	-7.39	-7.59	-18.99
318	243.29	159	11.52273	10.63601	9.890966	159	-3.14	-7.4	-7.58	-18.98
320	243.29	160	11.55114	10.62622	9.953271	160	-3.14	-7.41	-7.57	-18.97
322	243.3	161	11.57955	10.64579	9.906542	161	-3.14	-7.41	-7.57	-18.96
324	243.3	162	11.57955	10.59687	9.890966	162	-3.14	-7.42	-7.57	-18.96
326	243.3	163	11.63636	10.5773	9.890966	163	-3.13	-7.43	-7.56	-18.95
328	243.3	164	11.67898	10.60665	9.906542	164	-3.14	-7.44	-7.56	-18.94
330	243.3	165	11.69318	10.62622	9.937695	165	-3.14	-7.45	-7.56	-18.94
332	243.31	166	11.7358	10.62622	9.906542	166	-3.14	-7.45	-7.54	-18.93
334	243.31	167	11.7358	10.62622	9.953271	167	-3.14	-7.46	-7.54	-18.92
336	243.31	168	11.7358	10.64579	9.937695	168	-3.14	-7.47	-7.54	-18.91
338	243.31	169	11.7358	10.69472	9.875389	169	-3.13	-7.48	-7.53	-18.91
340	243.31	170	11.7358	10.7045	9.875389	170	-3.13	-7.48	-7.53	-18.9
342	243.32	171	11.7358	10.68493	9.922118	171	-3.14	-7.5	-7.53	-18.89
344	243.32	172	11.79261	10.67515	9.953271	172	-3.14	-7.51	-7.53	-18.88
346	243.32	173	11.82102	10.68493	9.953271	173	-3.14	-7.51	-7.52	-18.87
348	243.32	174	11.82102	10.7045	9.875389	174	-3.14	-7.52	-7.51	-18.86
350	243.32	175	11.83523	10.71429	9.906542	175	-3.13	-7.52	-7.5	-18.85
352	243.33	176	11.83523	10.73386	9.890966	176	-3.13	-7.52	-7.5	-18.84
354	243.33	177	11.84943	10.76321	9.890966	177	-3.13	-7.53	-7.49	-18.83

356	243.33	178	11.92045	10.77299	9.922118	178	-3.13	-7.53	-7.49	-18.82
358	243.33	179	11.97727	10.76321	9.968847	179	-3.12	-7.53	-7.48	-18.82
360	243.33	180	11.97727	10.76321	9.968847	180	-3.12	-7.54	-7.47	-18.81
362	243.34	181	12.03409	10.75342	9.953271	181	-3.13	-7.55	-7.48	-18.82
364	243.34	182	11.99148	10.75342	9.968847	182	-3.13	-7.56	-7.47	-18.81
366	243.34	183	12.00568	10.79256	9.984424	183	-3.13	-7.57	-7.47	-18.8
368	243.34	184	12.03409	10.79256	9.968847	184	-3.13	-7.57	-7.47	-18.8
370	243.34	185	12.0625	10.78278	9.968847	185	-3.13	-7.58	-7.46	-18.78
372	243.35	186	12.0625	10.82192	9.953271	186	-3.13	-7.58	-7.46	-18.79
374	243.35	187	12.10511	10.86106	9.968847	187	-3.13	-7.58	-7.46	-18.78
376	243.35	188	12.14773	10.86106	9.984424	188	-3.13	-7.59	-7.45	-18.76
378	243.35	189	12.17614	10.8317	10	189	-3.13	-7.6	-7.45	-18.76
380	243.35	190	12.17614	10.8317	10.04673	190	-3.12	-7.6	-7.45	-18.74
382	243.36	191	12.19034	10.87084	10.06231	191	-3.12	-7.6	-7.44	-18.74
384	243.36	192	12.23295	10.9002	10.06231	192	-3.11	-7.6	-7.43	-18.73
386	243.36	193	12.27557	10.90998	10.09346	193	-3.11	-7.6	-7.43	-18.72
388	243.36	194	12.31818	10.92955	10.12461	194	-3.12	-7.62	-7.43	-18.72
390	243.36	195	12.33239	10.96869	10.12461	195	-3.11	-7.61	-7.42	-18.72
392	243.36	196	12.34659	10.97847	10.07788	196	-3.11	-7.61	-7.42	-18.71
394	243.37	197	12.33239	10.98826	10.07788	197	-3.11	-7.62	-7.42	-18.7
396	243.37	198	12.31818	10.99804	10.09346	198	-3.11	-7.62	-7.41	-18.7
398	243.37	199	12.33239	11.0274	10.10903	199	-3.11	-7.62	-7.4	-18.69
400	243.37	200	12.375	11.0274	10.07788	200	-3.1	-7.62	-7.4	-18.68
402	243.37	201	12.375	11.0274	10.06231	201	-3.1	-7.62	-7.4	-18.67
404	243.38	202	12.3892	11.00783	10.15576	202	-3.1	-7.63	-7.39	-18.65
406	243.38	203	12.44602	11.03718	10.21807	203	-3.1	-7.63	-7.39	-18.66
408	243.38	204	12.44602	11.05675	10.17134	204	-3.1	-7.63	-7.39	-18.66
410	243.38	205	12.50284	11.04697	10.17134	205	-3.1	-7.64	-7.39	-18.65
412	243.38	206	12.55966	11.05675	10.18692	206	-3.11	-7.65	-7.39	-18.64
414	243.38	207	12.54545	11.03718	10.2648	207	-3.1	-7.64	-7.38	-18.64
416	243.39	208	12.54545	11.06654	10.23364	208	-3.1	-7.64	-7.38	-18.64
418	243.39	209	12.57386	11.07632	10.21807	209	-3.1	-7.65	-7.37	-18.63
420	243.39	210	12.60227	11.10568	10.23364	210	-3.1	-7.65	-7.37	-18.62
422	243.39	211	12.7017	11.09589	10.23364	211	-3.09	-7.65	-7.36	-18.6
424	243.39	212	12.7017	11.09589	10.24922	212	-3.09	-7.65	-7.36	-18.61
426	243.39	213	12.65909	11.12524	10.28037	213	-3.09	-7.65	-7.36	-18.6
428	243.4	214	12.6875	11.13503	10.28037	214	-3.09	-7.65	-7.36	-18.59
430	243.4	215	12.71591	11.13503	10.24922	215	-3.08	-7.65	-7.35	-18.58
432	243.4	216	12.74432	11.16438	10.2648	216	-3.08	-7.64	-7.34	-18.58
434	243.4	217	12.73011	11.14481	10.29595	217	-3.08	-7.65	-7.34	-18.57
436	243.4	218	12.74432	11.13503	10.34268	218	-3.09	-7.65	-7.35	-18.57
438	243.4	219	12.75852	11.16438	10.28037	219	-3.09	-7.65	-7.34	-18.57
440	243.41	220	12.81534	11.21331	10.34268	220	-3.09	-7.66	-7.35	-18.57
442	243.41	221	12.87216	11.22309	10.40498	221	-3.08	-7.65	-7.33	-18.55
444	243.41	222	12.85795	11.23288	10.37383	222	-3.09	-7.66	-7.34	-18.55

446	243.41	223	12.90057	11.23288	10.38941	223	-3.09	-7.67	-7.34	-18.55
448	243.41	224	12.95739	11.24266	10.42056	224	-3.09	-7.66	-7.34	-18.55
450	243.41	225	12.90057	11.20352	10.45171	225	-3.08	-7.66	-7.33	-18.53
452	243.42	226	12.94318	11.20352	10.43614	226	-3.09	-7.67	-7.33	-18.53
454	243.42	227	12.95739	11.26223	10.42056	227	-3.09	-7.67	-7.33	-18.53
456	243.42	228	13.0142	11.2818	10.45171	228	-3.09	-7.67	-7.33	-18.52
458	243.42	229	12.95739	11.27202	10.48287	229	-3.08	-7.66	-7.32	-18.51
460	243.42	230	13	11.2818	10.43614	230	-3.08	-7.66	-7.32	-18.5
462	243.42	231	13.05682	11.29159	10.48287	231	-3.08	-7.65	-7.31	-18.5
464	243.43	232	13.08523	11.30137	10.49844	232	-3.07	-7.64	-7.31	-18.49
466	243.43	233	13.09943	11.30137	10.5296	233	-3.07	-7.64	-7.31	-18.49
468	243.43	234	13.08523	11.26223	10.5296	234	-3.07	-7.63	-7.3	-18.47
470	243.43	235	13.11364	11.27202	10.57632	235	-3.07	-7.63	-7.3	-18.47
472	243.43	236	13.09943	11.31115	10.5919	236	-3.06	-7.62	-7.29	-18.47
474	243.43	237	13.14205	11.27202	10.5919	237	-3.08	-7.62	-7.29	-18.46
476	243.43	238	13.15625	11.30137	10.5919	238	-3.08	-7.63	-7.29	-18.45
478	243.44	239	13.12784	11.32094	10.5919	239	-3.07	-7.62	-7.29	-18.44
480	243.44	240	13.14205	11.29159	10.62305	240	-3.08	-7.62	-7.3	-18.45
482	243.44	241	13.17045	11.30137	10.60748	241	-3.08	-7.62	-7.29	-18.45
484	243.44	242	13.22727	11.34051	10.66978	242	-3.08	-7.62	-7.29	-18.44
486	243.44	243	13.24148	11.32094	10.63863	243	-3.08	-7.61	-7.29	-18.44
488	243.44	244	13.28409	11.32094	10.5919	244	-3.08	-7.62	-7.28	-18.43
490	243.45	245	13.25568	11.30137	10.62305	245	-3.09	-7.63	-7.28	-18.42
492	243.45	246	13.21307	11.33072	10.68536	246	-3.08	-7.63	-7.28	-18.41
494	243.45	247	13.25568	11.32094	10.63863	247	-3.08	-7.63	-7.28	-18.41
496	243.45	248	13.24148	11.37965	10.63863	248	-3.09	-7.64	-7.29	-18.42
498	243.46	249	13.25568	11.38943	10.62305	249	-3.08	-7.63	-7.28	-18.41
500	243.46	250	13.28409	11.35029	10.62305	250	-3.09	-7.64	-7.28	-18.4
502	243.46	251	13.24148	11.34051	10.63863	251	-3.09	-7.64	-7.28	-18.39
504	243.46	252	13.28409	11.36008	10.65421	252	-3.08	-7.65	-7.28	-18.38
506	243.46	253	13.28409	11.37965	10.62305	253	-3.08	-7.65	-7.27	-18.38
508	243.46	254	13.3125	11.37965	10.60748	254	-3.08	-7.65	-7.27	-18.39
510	243.46	255	13.35511	11.38943	10.62305	255	-3.08	-7.66	-7.27	-18.37
512	243.46	256	13.36932	11.36986	10.65421	256	-3.07	-7.67	-7.26	-18.36
514	243.46	257	13.39773	11.409	10.70093	257	-3.07	-7.67	-7.26	-18.36
516	243.47	258	13.41193	11.38943	10.74766	258	-3.07	-7.66	-7.26	-18.36
518	243.47	259	13.44034	11.37965	10.73209	259	-3.08	-7.67	-7.26	-18.36
520	243.47	260	13.38352	11.38943	10.74766	260	-3.08	-7.7	-7.26	-18.35
522	243.47	261	13.36932	11.39922	10.76324	261	-3.08	-7.72	-7.26	-18.34
524	243.47	262	13.41193	11.41879	10.73209	262	-3.07	-7.74	-7.25	-18.34
526	243.47	263	13.41193	11.44814	10.71651	263	-3.06	-7.75	-7.25	-18.33
528	243.47	264	13.38352	11.46771	10.77882	264	-3.07	-7.76	-7.25	-18.33
530	243.47	265	13.34091	11.46771	10.76324	265	-3.07	-7.77	-7.25	-18.33
532	243.47	266	13.38352	11.49706	10.77882	266	-3.06	-7.76	-7.24	-18.32
534	243.48	267	13.42614	11.44814	10.74766	267	-3.06	-7.74	-7.25	-18.33

536	243.48	268	13.45455	11.4775	10.76324	268	-3.08	-7.74	-7.24	-18.32
538	243.48	269	13.45455	11.46771	10.82555	269	-3.08	-7.75	-7.23	-18.31
540	243.48	270	13.49716	11.44814	10.82555	270	-3.08	-7.76	-7.24	-18.31
542	243.48	271	13.46875	11.43836	10.79439	271	-3.08	-7.78	-7.23	-18.3
544	243.48	272	13.45455	11.48728	10.82555	272	-3.08	-7.78	-7.23	-18.3
546	243.48	273	13.49716	11.50685	10.76324	273	-3.08	-7.79	-7.23	-18.29
548	243.48	274	13.53977	11.50685	10.76324	274	-3.08	-7.8	-7.23	-18.29
550	243.48	275	13.49716	11.51663	10.80997	275	-3.09	-7.81	-7.23	-18.29
552	243.48	276	13.53977	11.52642	10.80997	276	-3.09	-7.82	-7.22	-18.28
554	243.49	277	13.55398	11.49706	10.77882	277	-3.08	-7.82	-7.22	-18.27
556	243.49	278	13.52557	11.48728	10.79439	278	-3.08	-7.83	-7.21	-18.26
558	243.49	279	13.55398	11.50685	10.80997	279	-3.08	-7.83	-7.22	-18.27
560	243.49	280	13.58239	11.51663	10.73209	280	-3.06	-7.82	-7.19	-18.25
562	243.49	281	13.56818	11.56556	10.73209	281	-3.05	-7.81	-7.17	-18.23
564	243.49	282	13.55398	11.56556	10.68536	282	-3.03	-7.8	-7.15	-18.21
566	243.49	283	13.59659	11.54599	10.68536	283	-3.03	-7.8	-7.14	-18.2
568	243.49	284	13.59659	11.54599	10.71651	284	-3.03	-7.8	-7.14	-18.19
570	243.49	285	13.56818	11.56556	10.71651	285	-3.03	-7.81	-7.15	-18.2
572	243.5	286	13.58239	11.58513	10.70093	286	-3.03	-7.83	-7.16	-18.2
574	243.5	287	13.625	11.58513	10.74766	287	-3.04	-7.84	-7.17	-18.2
576	243.5	288	13.6392	11.56556	10.73209	288	-3.04	-7.84	-7.17	-18.21
578	243.5	289	13.625	11.59491	10.71651	289	-3.05	-7.86	-7.18	-18.21
580	243.5	290	13.6392	11.54599	10.77882	290	-3.06	-7.88	-7.18	-18.21
582	243.5	291	13.66761	11.57534	10.77882	291	-3.06	-7.88	-7.18	-18.21
584	243.5	292	13.6392	11.6047	10.77882	292	-3.06	-7.9	-7.19	-18.2
586	243.5	293	13.6392	11.61448	10.76324	293	-3.07	-7.91	-7.19	-18.2
588	243.5	294	13.65341	11.63405	10.71651	294	-3.06	-7.9	-7.19	-18.2
590	243.51	295	13.65341	11.65362	10.73209	295	-3.07	-7.93	-7.19	-18.2
592	243.51	296	13.65341	11.62427	10.77882	296	-3.07	-7.91	-7.19	-18.18
594	243.51	297	13.68182	11.56556	10.74766	297	-3.07	-7.92	-7.19	-18.18
596	243.51	298	13.73864	11.58513	10.76324	298	-3.06	-7.93	-7.18	-18.17
598	243.51	299	13.71023	11.62427	10.80997	299	-3.06	-7.93	-7.19	-18.18
600	243.51	300	13.71023	11.62427	10.74766	300	-3.07	-7.92	-7.19	-18.18
602	243.51	301	13.75284	11.61448	10.74766	301	-3.06	-7.93	-7.19	-18.17
604	243.51	302	13.75284	11.6047	10.80997	302	-3.07	-7.93	-7.19	-18.17
606	243.51	303	13.76705	11.63405	10.82555	303	-3.07	-7.95	-7.19	-18.16
608	243.51	304	13.76705	11.66341	10.84112	304	-3.07	-7.94	-7.2	-18.17
610	243.51	305	13.75284	11.67319	10.88785	305	-3.07	-7.94	-7.2	-18.16
612	243.52	306	13.72443	11.62427	10.93458	306	-3.07	-7.95	-7.2	-18.15
614	243.52	307	13.72443	11.6047	10.90343	307	-3.07	-7.95	-7.2	-18.14
616	243.52	308	13.72443	11.67319	10.87227	308	-3.08	-7.98	-7.2	-18.15
618	243.52	309	13.69602	11.66341	10.84112	309	-3.08	-8	-7.2	-18.14
620	243.52	310	13.72443	11.63405	10.84112	310	-3.08	-7.97	-7.2	-18.14
622	243.52	311	13.72443	11.66341	10.90343	311	-3.08	-7.95	-7.2	-18.14
624	243.52	312	13.78125	11.65362	10.8567	312	-3.08	-7.96	-7.2	-18.13

626	243.52	313	13.82386	11.65362	10.8567	313	-3.08	-7.99	-7.2	-18.13
628	243.52	314	13.82386	11.66341	10.88785	314	-3.08	-7.98	-7.2	-18.13
630	243.52	315	13.82386	11.69276	10.87227	315	-3.07	-7.95	-7.19	-18.12
632	243.52	316	13.82386	11.67319	10.8567	316	-3.08	-7.97	-7.2	-18.13
634	243.53	317	13.82386	11.66341	10.88785	317	-3.07	-7.96	-7.19	-18.11
636	243.53	318	13.82386	11.68297	10.88785	318	-3.07	-7.98	-7.19	-18.11
638	243.53	319	13.80966	11.68297	10.8567	319	-3.08	-7.98	-7.2	-18.11
640	243.53	320	13.86648	11.70254	10.84112	320	-3.07	-7.98	-7.19	-18.11
642	243.53	321	13.86648	11.72211	10.84112	321	-3.07	-7.98	-7.19	-18.1
644	243.53	322	13.90909	11.72211	10.8567	322	-3.07	-7.99	-7.19	-18.1
646	243.53	323	13.90909	11.71233	10.8567	323	-3.07	-7.99	-7.19	-18.09
648	243.53	324	13.90909	11.71233	10.87227	324	-3.07	-8	-7.18	-18.09
650	243.53	325	13.90909	11.74168	10.87227	325	-3.07	-8	-7.18	-18.09
652	243.53	326	13.9233	11.72211	10.87227	326	-3.07	-8.01	-7.19	-18.09
654	243.53	327	13.9517	11.69276	10.95016	327	-3.07	-8.01	-7.18	-18.08
656	243.53	328	13.9517	11.68297	10.93458	328	-3.06	-8.03	-7.18	-18.07
658	243.54	329	13.98011	11.72211	10.88785	329	-3.06	-8.01	-7.18	-18.06
660	243.54	330	13.9517	11.72211	10.87227	330	-3.06	-8.02	-7.17	-18.06
662	243.54	331	13.9233	11.72211	10.90343	331	-3.06	-8	-7.17	-18.05
664	243.54	332	13.98011	11.77104	10.90343	332	-3.06	-8.01	-7.17	-18.05
666	243.54	333	14.05114	11.80039	10.90343	333	-3.07	-8.02	-7.18	-18.06
668	243.54	334	13.98011	11.80039	10.87227	334	-3.06	-8.03	-7.17	-18.05
670	243.54	335	14.02273	11.75147	10.93458	335	-3.07	-8.02	-7.18	-18.05
672	243.54	336	14.06534	11.75147	10.919	336	-3.06	-8.02	-7.17	-18.04
674	243.54	337	14.09375	11.75147	10.95016	337	-3.06	-8.02	-7.17	-18.04
676	243.54	338	14.06534	11.70254	10.98131	338	-3.06	-8.03	-7.17	-18.03
678	243.54	339	14.06534	11.71233	10.95016	339	-3.05	-8.01	-7.17	-18.03
680	243.54	340	14.07955	11.78082	10.98131	340	-3.06	-8.05	-7.17	-18.02
682	243.54	341	14.07955	11.80039	11.01246	341	-3.06	-8.07	-7.17	-18.03
684	243.54	342	14.07955	11.75147	10.99688	342	-3.06	-8.06	-7.17	-18.02
686	243.55	343	14.07955	11.77104	10.93458	343	-3.06	-8.08	-7.17	-18.02
688	243.55	344	14.09375	11.77104	10.919	344	-3.06	-8.06	-7.17	-18.01
690	243.55	345	14.12216	11.81996	10.90343	345	-3.07	-8.08	-7.17	-18.02
692	243.55	346	14.17898	11.8591	10.98131	346	-3.08	-8.1	-7.18	-18.02
694	243.55	347	14.15057	11.84932	10.95016	347	-3.07	-8.1	-7.18	-18.01
696	243.55	348	14.13636	11.83953	10.87227	348	-3.07	-8.1	-7.18	-18.02
698	243.55	349	14.15057	11.82975	10.919	349	-3.07	-8.1	-7.17	-18
700	243.55	350	14.13636	11.84932	10.90343	350	-3.07	-8.13	-7.18	-18
702	243.55	351	14.16477	11.79061	10.90343	351	-3.08	-8.13	-7.18	-18
704	243.55	352	14.17898	11.81018	10.88785	352	-3.07	-8.13	-7.18	-18
706	243.55	353	14.17898	11.83953	10.87227	353	-3.07	-8.14	-7.17	-17.99
708	243.55	354	14.2358	11.81018	10.87227	354	-3.07	-8.12	-7.17	-17.99
710	243.55	355	14.20739	11.83953	10.88785	355	-3.07	-8.13	-7.17	-17.99
712	243.55	356	14.19318	11.84932	10.84112	356	-3.07	-8.14	-7.17	-17.97
714	243.55	357	14.22159	11.83953	10.84112	357	-3.06	-8.15	-7.17	-17.97

716	243.56	358	14.25	11.81018	10.88785	358	-3.07	-8.14	-7.17	-17.97
718	243.56	359	14.25	11.80039	10.919	359	-3.07	-8.15	-7.17	-17.97
720	243.56	360	14.2642	11.80039	10.93458	360	-3.06	-8.16	-7.17	-17.97
722	243.56	361	14.29261	11.82975	10.88785	361	-3.06	-8.15	-7.17	-17.96
724	243.56	362	14.2358	11.82975	10.84112	362	-3.06	-8.15	-7.16	-17.96
726	243.56	363	14.2358	11.82975	10.8567	363	-3.06	-8.16	-7.16	-17.96
728	243.56	364	14.25	11.87867	10.919	364	-3.06	-8.15	-7.16	-17.95
730	243.56	365	14.25	11.8591	10.919	365	-3.06	-8.16	-7.16	-17.94
732	243.56	366	14.29261	11.82975	10.88785	366	-3.06	-8.15	-7.16	-17.95
734	243.56	367	14.27841	11.8591	10.919	367	-3.06	-8.16	-7.16	-17.94
736	243.56	368	14.30682	11.83953	10.93458	368	-3.06	-8.18	-7.16	-17.94
738	243.56	369	14.29261	11.86888	10.96573	369	-3.06	-8.18	-7.16	-17.94
740	243.56	370	14.27841	11.88845	10.96573	370	-3.06	-8.16	-7.16	-17.92
742	243.56	371	14.27841	11.89824	10.98131	371	-3.06	-8.17	-7.17	-17.93
744	243.56	372	14.30682	11.91781	10.96573	372	-3.06	-8.19	-7.16	-17.93
746	243.56	373	14.32102	11.87867	10.99688	373	-3.06	-8.18	-7.16	-17.93
748	243.56	374	14.30682	11.86888	10.98131	374	-3.06	-8.17	-7.17	-17.93
750	243.57	375	14.30682	11.88845	10.95016	375	-3.07	-8.17	-7.17	-17.92
752	243.57	376	14.27841	11.8591	10.919	376	-3.06	-8.19	-7.16	-17.92
754	243.57	377	14.30682	11.8591	10.919	377	-3.06	-8.17	-7.16	-17.92
756	243.57	378	14.33523	11.92759	10.87227	378	-3.06	-8.19	-7.17	-17.92
758	243.57	379	14.32102	11.90802	10.88785	379	-3.06	-8.16	-7.17	-17.92
760	243.57	380	14.29261	11.88845	10.93458	380	-3.06	-8.16	-7.17	-17.91
762	243.57	381	14.27841	11.88845	10.95016	381	-3.06	-8.17	-7.16	-17.9
764	243.57	382	14.29261	11.88845	10.93458	382	-3.05	-8.17	-7.16	-17.9
766	243.57	383	14.33523	11.92759	10.919	383	-3.05	-8.18	-7.16	-17.9
768	243.57	384	14.32102	11.93738	10.96573	384	-3.05	-8.16	-7.16	-17.89
770	243.57	385	14.33523	11.90802	10.95016	385	-3.05	-8.15	-7.15	-17.89
772	243.57	386	14.34943	11.87867	10.90343	386	-3.05	-8.16	-7.16	-17.88
774	243.57	387	14.36364	11.87867	10.88785	387	-3.04	-8.15	-7.15	-17.88
776	243.57	388	14.33523	11.87867	10.90343	388	-3.04	-8.15	-7.15	-17.88
778	243.57	389	14.32102	11.89824	10.919	389	-3.04	-8.16	-7.16	-17.88
780	243.57	390	14.36364	11.88845	11.01246	390	-3.04	-8.16	-7.15	-17.87
782	243.57	391	14.34943	11.8591	11.01246	391	-3.05	-8.17	-7.16	-17.88
784	243.57	392	14.32102	11.88845	10.96573	392	-3.04	-8.17	-7.16	-17.87
786	243.58	393	14.32102	11.90802	10.99688	393	-3.04	-8.18	-7.16	-17.87
788	243.58	394	14.29261	11.91781	11.01246	394	-3.04	-8.17	-7.16	-17.87
790	243.58	395	14.34943	11.89824	11.01246	395	-3.03	-8.18	-7.15	-17.85
792	243.58	396	14.37784	11.88845	10.98131	396	-3.03	-8.18	-7.15	-17.85
794	243.58	397	14.34943	11.87867	10.95016	397	-3.04	-8.18	-7.16	-17.86
796	243.58	398	14.34943	11.8591	10.96573	398	-3.04	-8.19	-7.16	-17.85
798	243.58	399	14.34943	11.87867	11.01246	399	-3.03	-8.19	-7.16	-17.85
800	243.58	400	14.34943	11.89824	11.02804	400	-3.03	-8.19	-7.16	-17.85
802	243.58	401	14.37784	11.89824	10.99688	401	-3.04	-8.19	-7.16	-17.83
804	243.58	402	14.33523	11.87867	11.04361	402	-3.04	-8.2	-7.16	-17.8

806	243.58	403	14.33523	11.88845	11.05919	403	-3.04	-8.19	-7.16	-17.8
808	243.58	404	14.32102	11.89824	11.10592	404	-3.04	-8.19	-7.16	-17.8
810	243.58	405	14.30682	11.92759	11.05919	405	-3.04	-8.2	-7.17	-17.81
812	243.58	406	14.33523	11.88845	11.01246	406	-3.03	-8.19	-7.16	-17.78
814	243.58	407	14.30682	11.8591	11.04361	407	-3.04	-8.2	-7.16	-17.77
816	243.58	408	14.30682	11.87867	11.10592	408	-3.03	-8.2	-7.16	-17.77
818	243.58	409	14.27841	11.88845	11.10592	409	-3.03	-8.21	-7.16	-17.78
820	243.58	410	14.29261	11.88845	11.02804	410	-3.03	-8.2	-7.15	-17.77
822	243.58	411	14.29261	11.94716	11.07477	411	-3.02	-8.2	-7.15	-17.75
824	243.58	412	14.32102	11.93738	11.10592	412	-3.02	-8.2	-7.15	-17.75
826	243.58	413	14.30682	11.93738	11.07477	413	-3.02	-8.2	-7.15	-17.76
828	243.58	414	14.29261	11.91781	11.04361	414	-3.01	-8.2	-7.15	-17.76
830	243.58	415	14.29261	11.94716	11.01246	415	-3.01	-8.2	-7.14	-17.74
832	243.58	416	14.25	11.94716	11.04361	416	-3.01	-8.2	-7.14	-17.72
834	243.59	417	14.29261	11.92759	11.05919	417	-3	-8.19	-7.14	-17.72
836	243.59	418	14.30682	11.92759	11.07477	418	-3	-8.2	-7.13	-17.72
838	243.59	419	14.30682	11.91781	11.05919	419	-3	-8.2	-7.14	-17.71
840	243.59	420	14.29261	11.93738	11.02804	420	-3	-8.2	-7.13	-17.7
842	243.59	421	14.29261	11.94716	11.05919	421	-2.99	-8.19	-7.13	-17.71
844	243.59	422	14.32102	11.93738	11.07477	422	-2.99	-8.2	-7.13	-17.71
846	243.59	423	14.29261	11.86888	11.02804	423	-2.99	-8.21	-7.13	-17.7
848	243.59	424	14.33523	11.89824	10.99688	424	-2.99	-8.2	-7.13	-17.69
850	243.59	425	14.32102	11.91781	11.07477	425	-2.99	-8.2	-7.13	-17.69
852	243.59	426	14.27841	11.94716	11.09034	426	-2.98	-8.2	-7.12	-17.7
854	243.59	427	14.29261	11.92759	11.04361	427	-2.98	-8.21	-7.13	-17.7
856	243.59	428	14.29261	11.90802	11.02804	428	-2.98	-8.2	-7.13	-17.71
858	243.59	429	14.32102	11.89824	11.01246	429	-2.98	-8.2	-7.13	-17.72
860	243.59	430	14.34943	11.91781	10.96573	430	-2.98	-8.21	-7.13	-17.73
862	243.59	431	14.34943	11.94716	11.01246	431	-2.99	-8.22	-7.14	-17.75
864	243.59	432	14.30682	11.92759	11.05919	432	-2.99	-8.23	-7.14	-17.75
866	243.59	433	14.29261	11.91781	11.02804	433	-2.98	-8.22	-7.14	-17.75
868	243.59	434	14.30682	11.93738	11.01246	434	-2.98	-8.22	-7.14	-17.75
870	243.59	435	14.29261	11.91781	11.04361	435	-2.98	-8.22	-7.15	-17.74
872	243.59	436	14.29261	11.93738	11.01246	436	-2.99	-8.23	-7.15	-17.74
874	243.59	437	14.32102	11.94716	10.99688	437	-2.98	-8.22	-7.15	-17.75
876	243.59	438	14.27841	11.92759	11.05919	438	-2.98	-8.21	-7.15	-17.74
878	243.59	439	14.27841	11.88845	10.99688	439	-2.98	-8.23	-7.15	-17.72
880	243.59	440	14.30682	11.91781	11.02804	440	-2.99	-8.23	-7.16	-17.71
882	243.59	441	14.30682	11.94716	11.07477	441	-2.99	-8.22	-7.16	-17.7
884	243.59	442	14.30682	11.92759	11.07477	442	-2.99	-8.23	-7.16	-17.71
886	243.59	443	14.30682	11.90802	11.01246	443	-2.99	-8.24	-7.15	-17.7
888	243.6	444	14.29261	11.88845	11.02804	444	-2.99	-8.23	-7.16	-17.68
890	243.6	445	14.27841	11.93738	10.99688	445	-3	-8.25	-7.16	-17.68
892	243.59	446	14.30682	11.95695	11.02804	446	-3	-8.25	-7.16	-17.69
894	243.6	447	14.34943	11.96673	11.01246	447	-2.99	-8.24	-7.16	-17.68

896	243.6	448	14.29261	11.93738	10.99688	448	-2.99	-8.26	-7.15	-17.69
898	243.6	449	14.33523	11.92759	10.99688	449	-2.98	-8.25	-7.15	-17.69
900	243.6	450	14.39205	11.94716	11.04361	450	-2.99	-8.26	-7.15	-17.7
902	243.6	451	14.36364	11.92759	11.04361	451	-2.99	-8.27	-7.16	-17.7
904	243.6	452	14.36364	11.91781	11.07477	452	-2.99	-8.26	-7.16	-17.69
906	243.6	453	14.36364	11.91781	11.09034	453	-2.99	-8.26	-7.16	-17.66
908	243.6	454	14.30682	11.90802	11.07477	454	-2.99	-8.28	-7.16	-17.67
910	243.6	455	14.30682	11.88845	11.01246	455	-2.99	-8.29	-7.16	-17.68
912	243.6	456	14.34943	11.90802	10.98131	456	-2.99	-8.28	-7.16	-17.67
914	243.6	457	14.39205	11.94716	10.98131	457	-2.99	-8.28	-7.16	-17.65
916	243.6	458	14.39205	11.96673	11.02804	458	-2.98	-8.28	-7.16	-17.64
918	243.6	459	14.37784	11.97652	11.04361	459	-2.98	-8.28	-7.16	-17.65
920	243.6	460	14.36364	11.96673	11.05919	460	-2.97	-8.28	-7.15	-17.66
922	243.6	461	14.37784	11.9863	11.02804	461	-2.97	-8.28	-7.15	-17.64
924	243.6	462	14.34943	11.97652	11.02804	462	-2.97	-8.27	-7.15	-17.62
926	243.6	463	14.32102	11.93738	11.05919	463	-2.97	-8.29	-7.15	-17.63
928	243.6	464	14.34943	11.95695	11.01246	464	-2.97	-8.3	-7.15	-17.63
930	243.6	465	14.37784	11.9863	11.01246	465	-2.97	-8.3	-7.15	-17.64
932	243.6	466	14.43466	11.96673	11.01246	466	-2.97	-8.32	-7.15	-17.64
934	243.6	467	14.43466	11.93738	11.02804	467	-2.97	-8.3	-7.15	-17.62
936	243.6	468	14.42045	11.89824	11.07477	468	-2.97	-8.3	-7.15	-17.61
938	243.6	469	14.36364	11.93738	11.04361	469	-2.97	-8.3	-7.15	-17.62
940	243.6	470	14.39205	11.96673	11.05919	470	-2.96	-8.29	-7.15	-17.63
942	243.6	471	14.44886	11.93738	11.05919	471	-2.97	-8.3	-7.16	-17.62
944	243.6	472	14.43466	11.90802	11.02804	472	-2.96	-8.3	-7.15	-17.6
946	243.6	473	14.42045	11.89824	11.01246	473	-2.97	-8.31	-7.15	-17.6
948	243.6	474	14.42045	11.95695	11.01246	474	-2.97	-8.32	-7.15	-17.62
950	243.6	475	14.40625	11.96673	11.01246	475	-2.96	-8.3	-7.15	-17.61
952	243.6	476	14.42045	11.99609	11.07477	476	-2.96	-8.29	-7.15	-17.6
954	243.6	477	14.42045	11.95695	11.07477	477	-2.95	-8.3	-7.14	-17.58
956	243.6	478	14.39205	11.93738	11.02804	478	-2.96	-8.3	-7.14	-17.59
958	243.6	479	14.44886	11.89824	11.05919	479	-2.96	-8.32	-7.15	-17.61
960	243.6	480	14.43466	11.89824	11.07477	480	-2.95	-8.31	-7.14	-17.61
962	243.6	481	14.42045	11.90802	11.05919	481	-2.95	-8.32	-7.14	-17.61
964	243.6	482	14.42045	11.92759	11.05919	482	-2.95	-8.31	-7.15	-17.59
966	243.6	483	14.43466	11.90802	11.07477	483	-2.95	-8.3	-7.14	-17.57
968	243.61	484	14.50568	11.89824	11.05919	484	-2.94	-8.31	-7.14	-17.55
970	243.61	485	14.43466	11.88845	11.07477	485	-2.94	-8.27	-7.14	-17.51
972	243.6	486	14.42045	11.95695	11.05919	486	-2.94	-8.26	-7.14	-17.43
974	243.61	487	14.47727	11.92759	11.10592	487	-2.92	-8.24	-7.12	-17.33
976	243.61	488	14.47727	11.89824	11.15265	488	-2.91	-8.23	-7.11	-17.22
978	243.61	489	14.40625	11.91781	11.1215	489	-2.91	-8.21	-7.09	-17.08
980	243.61	490	14.42045	11.96673	11.10592	490	-2.89	-8.18	-7.06	-16.93
982	243.61	491	14.43466	11.96673	11.15265	491	-2.87	-8.16	-7.03	-16.78
984	243.61	492	14.40625	11.96673	11.16822	492	-2.84	-8.15	-6.99	-16.64

986	243.61	493	14.39205	11.96673	11.21495	493	-2.81	-8.12	-6.94	-16.57
988	243.61	494	14.39205	11.97652	11.29283	494	-2.78	-8.07	-6.89	-16.54
990	243.61	495	14.37784	11.97652	11.33956	495	-2.75	-8.08	-6.85	-16.5
992	243.61	496	14.44886	11.99609	11.30841	496	-2.71	-8.05	-6.82	-16.48
994	243.61	497	14.44886	11.9863	11.38629	497	-2.68	-8.02	-6.78	-16.5
996	243.61	498	14.40625	12.02544	11.5109	498	-2.66	-7.98	-6.76	-16.58
998	243.61	499	14.40625	12.03523	11.52648	499	-2.64	-7.96	-6.75	-16.7
1000	243.61	500	14.46307	12.06458	11.52648	500	-2.63	-7.95	-6.75	-16.83
1002	243.61	501	14.50568	12.07436	11.54206	501	-2.62	-7.98	-6.75	-16.93
1004	243.61	502	14.53409	12.12329	11.55763	502	-2.62	-8.02	-6.76	-17.02
1006	243.61	503	14.5767	12.16243	11.57321	503	-2.61	-8.07	-6.77	-17.09
1008	243.61	504	14.5483	12.13307	11.60436	504	-2.62	-8.1	-6.78	-17.12
1010	243.61	505	14.59091	12.14286	11.54206	505	-2.62	-8.1	-6.79	-17.14
1012	243.61	506	14.61932	12.15264	11.52648	506	-2.62	-8.12	-6.8	-17.18
1014	243.61	507	14.64773	12.14286	11.54206	507	-2.63	-8.12	-6.82	-17.22
1016	243.61	508	14.63352	12.14286	11.57321	508	-2.64	-8.15	-6.83	-17.25
1018	243.61	509	14.61932	12.10372	11.58879	509	-2.64	-8.13	-6.84	-17.26
1020	243.61	510	14.61932	12.12329	11.55763	510	-2.65	-8.15	-6.85	-17.26
1022	243.61	511	14.60511	12.13307	11.54206	511	-2.66	-8.15	-6.86	-17.29
1024	243.61	512	14.5767	12.17221	11.54206	512	-2.66	-8.16	-6.87	-17.32
1026	243.61	513	14.5767	12.12329	11.5109	513	-2.68	-8.16	-6.89	-17.34
1028	243.61	514	14.60511	12.08415	11.52648	514	-2.69	-8.16	-6.9	-17.33
1030	243.61	515	14.59091	12.07436	11.5109	515	-2.68	-8.16	-6.9	-17.33
1032	243.61	516	14.5483	12.07436	11.47975	516	-2.69	-8.15	-6.91	-17.35
1034	243.61	517	14.5767	12.05479	11.49533	517	-2.71	-8.17	-6.93	-17.38
1036	243.61	518	14.51989	12.09393	11.46417	518	-2.71	-8.15	-6.93	-17.37
1038	243.61	519	14.47727	12.04501	11.46417	519	-2.72	-8.16	-6.94	-17.36
1040	243.61	520	14.47727	12.05479	11.5109	520	-2.72	-8.16	-6.95	-17.38
1042	243.61	521	14.46307	12.03523	11.54206	521	-2.72	-8.15	-6.95	-17.39
1044	243.61	522	14.46307	12.02544	11.52648	522	-2.72	-8.15	-6.95	-17.38
1046	243.61	523	14.44886	12.00587	11.4486	523	-2.72	-8.14	-6.96	-17.37
1048	243.62	524	14.47727	12.01566	11.49533	524	-2.72	-8.15	-6.96	-17.38
1050	243.62	525	14.42045	11.96673	11.47975	525	-2.73	-8.13	-6.97	-17.4
1052	243.61	526	14.46307	11.94716	11.49533	526	-2.74	-8.15	-6.98	-17.42
1054	243.62	527	14.43466	12.00587	11.52648	527	-2.74	-8.17	-6.99	-17.43
1056	243.62	528	14.39205	12.00587	11.5109	528	-2.75	-8.15	-7	-17.45
1058	243.62	529	14.32102	11.97652	11.5109	529	-2.75	-8.14	-7.01	-17.45
1060	243.62	530	14.29261	11.95695	11.52648	530	-2.75	-8.12	-7.01	-17.46
1062	243.62	531	14.32102	11.93738	11.54206	531	-2.75	-8.03	-7.02	-17.46
1064	243.62	532	14.32102	11.93738	11.55763	532	-2.77	-8.14	-7.02	-17.47
1066	243.62	533	14.30682	11.92759	11.57321	533	-2.77	-8.23	-7.01	-17.47
1068	243.62	534	14.32102	11.95695	11.52648	534	-2.77	-8.22	-7.01	-17.46
1070	243.62	535	14.2642	11.95695	11.5109	535	-2.77	-8.22	-7.01	-17.44
1072	243.62	536	14.2642	11.91781	11.52648	536	-2.78	-8.24	-7.02	-17.43
1074	243.62	537	14.2358	11.86888	11.5109	537	-2.79	-8.26	-7.02	-17.44

1076	243.62	538	14.22159	11.86888	11.54206	538	-2.8	-8.29	-7.03	-17.45
1078	243.62	539	14.22159	11.84932	11.54206	539	-2.79	-8.29	-7.03	-17.43
1080	243.62	540	14.20739	11.86888	11.55763	540	-2.79	-8.3	-7.03	-17.42
1082	243.62	541	14.16477	11.84932	11.5109	541	-2.8	-8.3	-7.03	-17.43
1084	243.62	542	14.13636	11.83953	11.49533	542	-2.8	-8.32	-7.03	-17.44
1086	243.62	543	14.15057	11.83953	11.47975	543	-2.8	-8.29	-7.04	-17.43
1088	243.62	544	14.09375	11.87867	11.5109	544	-2.79	-8.29	-7.03	-17.4
1090	243.62	545	14.07955	11.8591	11.54206	545	-2.8	-8.28	-7.03	-17.4
1092	243.62	546	14.06534	11.8591	11.58879	546	-2.8	-8.3	-7.04	-17.42
1094	243.62	547	14.03693	11.83953	11.54206	547	-2.8	-8.3	-7.04	-17.42
1096	243.62	548	14.00852	11.83953	11.52648	548	-2.8	-8.31	-7.04	-17.4
1098	243.62	549	13.98011	11.81018	11.52648	549	-2.8	-8.3	-7.04	-17.39
1100	243.62	550	14.02273	11.79061	11.54206	550	-2.81	-8.29	-7.04	-17.41
1102	243.62	551	13.98011	11.77104	11.54206	551	-2.81	-8.31	-7.05	-17.41
1104	243.62	552	13.9517	11.76125	11.54206	552	-2.81	-8.32	-7.05	-17.4
1106	243.62	553	13.9375	11.77104	11.52648	553	-2.8	-8.32	-7.04	-17.38
1108	243.62	554	13.9233	11.77104	11.4486	554	-2.81	-8.32	-7.04	-17.39
1110	243.62	555	13.89489	11.76125	11.5109	555	-2.82	-8.34	-7.05	-17.41
1112	243.62	556	13.90909	11.78082	11.55763	556	-2.82	-8.35	-7.06	-17.41
1114	243.62	557	13.90909	11.80039	11.52648	557	-2.82	-8.35	-7.06	-17.39
1116	243.62	558	13.89489	11.74168	11.4486	558	-2.82	-8.35	-7.06	-17.39
1118	243.62	559	13.86648	11.74168	11.47975	559	-2.82	-8.34	-7.06	-17.4
1120	243.62	560	13.88068	11.74168	11.4486	560	-2.82	-8.35	-7.06	-17.41
1122	243.62	561	13.85227	11.7319	11.43302	561	-2.82	-8.34	-7.06	-17.4
1124	243.62	562	13.83807	11.77104	11.4486	562	-2.83	-8.35	-7.06	-17.39
1126	243.62	563	13.79545	11.76125	11.47975	563	-2.84	-8.37	-7.07	-17.4
1128	243.62	564	13.75284	11.74168	11.49533	564	-2.83	-8.36	-7.07	-17.4
1130	243.62	565	13.82386	11.74168	11.5109	565	-2.83	-8.35	-7.07	-17.39
1132	243.62	566	13.83807	11.77104	11.47975	566	-2.83	-8.36	-7.07	-17.4
1134	243.62	567	13.78125	11.78082	11.4486	567	-2.83	-8.37	-7.08	-17.42
1136	243.62	568	13.71023	11.76125	11.43302	568	-2.84	-8.4	-7.08	-17.4
1138	243.62	569	13.75284	11.7319	11.40187	569	-2.84	-8.38	-7.08	-17.4
1140	243.62	570	13.79545	11.71233	11.35514	570	-2.83	-8.38	-7.07	-17.4
1142	243.62	571	13.78125	11.76125	11.41745	571	-2.84	-8.4	-7.08	-17.42
1144	243.62	572	13.73864	11.76125	11.41745	572	-2.84	-8.39	-7.08	-17.42
1146	243.62	573	13.72443	11.7319	11.40187	573	-2.83	-8.38	-7.08	-17.4
1148	243.62	574	13.68182	11.70254	11.41745	574	-2.83	-8.39	-7.08	-17.39
1150	243.62	575	13.65341	11.68297	11.43302	575	-2.84	-8.39	-7.08	-17.4
1152	243.62	576	13.65341	11.64384	11.37072	576	-2.85	-8.4	-7.09	-17.41
1154	243.62	577	13.68182	11.67319	11.41745	577	-2.85	-8.41	-7.09	-17.42
1156	243.62	578	13.66761	11.71233	11.46417	578	-2.85	-8.42	-7.09	-17.42
1158	243.62	579	13.6392	11.70254	11.43302	579	-2.85	-8.4	-7.1	-17.41
1160	243.62	580	13.625	11.69276	11.43302	580	-2.85	-8.4	-7.09	-17.4
1162	243.62	581	13.58239	11.63405	11.43302	581	-2.84	-8.39	-7.09	-17.4
1164	243.62	582	13.58239	11.62427	11.4486	582	-2.85	-8.4	-7.09	-17.39

1166	243.62	583	13.55398	11.69276	11.49533	583	-2.85	-8.42	-7.1	-17.39
1168	243.62	584	13.52557	11.70254	11.49533	584	-2.86	-8.43	-7.1	-17.4
1170	243.62	585	13.53977	11.66341	11.46417	585	-2.85	-8.43	-7.1	-17.39
1172	243.62	586	13.53977	11.67319	11.40187	586	-2.85	-8.42	-7.09	-17.37
1174	243.62	587	13.52557	11.61448	11.41745	587	-2.84	-8.41	-7.09	-17.37
1176	243.62	588	13.49716	11.57534	11.40187	588	-2.84	-8.42	-7.09	-17.37
1178	243.62	589	13.53977	11.59491	11.41745	589	-2.84	-8.42	-7.09	-17.36
1180	243.62	590	13.45455	11.59491	11.40187	590	-2.85	-8.42	-7.1	-17.36
1182	243.62	591	13.46875	11.61448	11.43302	591	-2.85	-8.44	-7.09	-17.36
1184	243.62	592	13.44034	11.61448	11.4486	592	-2.84	-8.43	-7.09	-17.36
1186	243.62	593	13.45455	11.62427	11.43302	593	-2.84	-8.43	-7.09	-17.35
1188	243.62	594	13.46875	11.6047	11.37072	594	-2.84	-8.41	-7.09	-17.35
1190	243.62	595	13.48295	11.59491	11.37072	595	-2.85	-8.43	-7.09	-17.37
1192	243.62	596	13.45455	11.6047	11.37072	596	-2.84	-8.43	-7.09	-17.37
1194	243.62	597	13.38352	11.6047	11.43302	597	-2.84	-8.44	-7.1	-17.36
1196	243.62	598	13.34091	11.6047	11.46417	598	-2.85	-8.43	-7.1	-17.35
1198	243.62	599	13.39773	11.6047	11.43302	599	-2.85	-8.43	-7.1	-17.37
1200	243.62	600	13.35511	11.58513	11.41745	600	-2.85	-8.47	-7.11	-17.37
1202	243.62	601	13.36932	11.5362	11.40187	601	-2.85	-8.44	-7.11	-17.36
1204	243.62	602	13.35511	11.5362	11.41745	602	-2.85	-8.44	-7.1	-17.35
1206	243.62	603	13.35511	11.55577	11.46417	603	-2.85	-8.46	-7.09	-17.35
1208	243.62	604	13.34091	11.57534	11.41745	604	-2.85	-8.47	-7.1	-17.36
1210	243.62	605	13.28409	11.52642	11.38629	605	-2.84	-8.45	-7.09	-17.34
1212	243.62	606	13.26989	11.52642	11.35514	606	-2.84	-8.45	-7.09	-17.32
1214	243.62	607	13.25568	11.51663	11.37072	607	-2.84	-8.45	-7.1	-17.34
1216	243.62	608	13.24148	11.50685	11.38629	608	-2.85	-8.44	-7.1	-17.36
1218	243.62	609	13.25568	11.48728	11.40187	609	-2.84	-8.43	-7.1	-17.35
1220	243.62	610	13.22727	11.4775	11.4486	610	-2.84	-8.45	-7.1	-17.34
1222	243.62	611	13.24148	11.48728	11.4486	611	-2.84	-8.48	-7.1	-17.34
1224	243.62	612	13.24148	11.4775	11.40187	612	-2.85	-8.45	-7.11	-17.36
1226	243.62	613	13.22727	11.49706	11.37072	613	-2.85	-8.47	-7.11	-17.36
1228	243.62	614	13.18466	11.51663	11.33956	614	-2.85	-8.47	-7.11	-17.36
1230	243.62	615	13.09943	11.43836	11.29283	615	-2.85	-8.48	-7.11	-17.35
1232	243.62	616	13.11364	11.409	11.30841	616	-2.85	-8.48	-7.13	-17.36
1234	243.62	617	13.18466	11.45793	11.37072	617	-2.85	-8.47	-7.12	-17.37
1236	243.62	618	13.19886	11.51663	11.37072	618	-2.86	-8.5	-7.13	-17.36
1238	243.62	619	13.15625	11.52642	11.37072	619	-2.86	-8.52	-7.13	-17.35
1240	243.62	620	13.17045	11.48728	11.38629	620	-2.86	-8.48	-7.12	-17.36
1242	243.62	621	13.11364	11.43836	11.32399	621	-2.86	-8.48	-7.13	-17.37
1244	243.62	622	13.12784	11.37965	11.32399	622	-2.87	-8.49	-7.13	-17.37
1246	243.62	623	13.12784	11.409	11.35514	623	-2.87	-8.49	-7.13	-17.35
1248	243.62	624	13.09943	11.38943	11.38629	624	-2.87	-8.49	-7.13	-17.35
1250	243.62	625	13.08523	11.409	11.43302	625	-2.87	-8.51	-7.14	-17.37
1252	243.62	626	13.05682	11.43836	11.38629	626	-2.87	-8.5	-7.13	-17.37
1254	243.62	627	13.08523	11.42857	11.35514	627	-2.87	-8.51	-7.13	-17.35

1256	243.62	628	13.04261	11.43836	11.35514	628	-2.87	-8.53	-7.13	-17.35
1258	243.62	629	13.0142	11.42857	11.32399	629	-2.86	-8.49	-7.12	-17.36
1260	243.63	630	13	11.41879	11.32399	630	-2.86	-8.48	-7.12	-17.35
1262	243.62	631	13.05682	11.38943	11.35514	631	-2.86	-8.5	-7.12	-17.34
		632	13.02841	11.39922	11.35514	632	-2.86	-8.5	-7.12	-17.33
		633	12.9858	11.42857	11.37072	633	-2.86	-8.51	-7.12	-17.34
		634	12.97159	11.39922	11.33956	634	-2.86	-8.52	-7.13	-17.37
		635	12.97159	11.36008	11.32399	635	-2.86	-8.5	-7.13	-17.37
		636	12.9858	11.409	11.30841	636	-2.86	-8.52	-7.13	-17.35
		637	12.97159	11.37965	11.32399	637	-2.87	-8.53	-7.14	-17.35
		638	12.94318	11.37965	11.33956	638	-2.87	-8.51	-7.14	-17.36
		639	12.95739	11.36008	11.32399	639	-2.86	-8.51	-7.14	-17.37
		640	12.94318	11.36008	11.30841	640	-2.87	-8.51	-7.15	-17.38
		641	12.95739	11.34051	11.30841	641	-2.87	-8.52	-7.15	-17.39
		642	12.92898	11.36986	11.27726	642	-2.86	-8.54	-7.15	-17.38
		643	12.88636	11.39922	11.27726	643	-2.86	-8.51	-7.14	-17.36
		644	12.90057	11.36008	11.26168	644	-2.86	-8.52	-7.15	-17.36
		645	12.88636	11.33072	11.29283	645	-2.86	-8.52	-7.15	-17.37
		646	12.88636	11.32094	11.30841	646	-2.86	-8.53	-7.16	-17.38
		647	12.88636	11.29159	11.29283	647	-2.87	-8.51	-7.16	-17.36
		648	12.87216	11.31115	11.27726	648	-2.86	-8.53	-7.15	-17.34
		649	12.85795	11.30137	11.30841	649	-2.86	-8.53	-7.14	-17.35
		650	12.80114	11.30137	11.29283	650	-2.86	-8.5	-7.14	-17.34
		651	12.75852	11.27202	11.26168	651	-2.86	-8.55	-7.14	-17.33
		652	12.7017	11.27202	11.30841	652	-2.87	-8.52	-7.15	-17.34
		653	12.6733	11.27202	11.30841	653	-2.86	-8.55	-7.14	-17.34
		654	12.6733	11.29159	11.30841	654	-2.85	-8.5	-7.14	-17.35
		655	12.7017	11.2818	11.32399	655	-2.85	-8.53	-7.14	-17.34
		656	12.6875	11.26223	11.26168	656	-2.85	-8.5	-7.13	-17.33
		657	12.6875	11.25245	11.27726	657	-2.85	-8.5	-7.14	-17.34
		658	12.64489	11.19374	11.35514	658	-2.85	-8.52	-7.14	-17.34
		659	12.60227	11.16438	11.35514	659	-2.85	-8.53	-7.14	-17.32
		660	12.60227	11.17417	11.37072	660	-2.85	-8.54	-7.13	-17.32
		661	12.64489	11.21331	11.33956	661	-2.86	-8.53	-7.14	-17.34
		662	12.61648	11.27202	11.29283	662	-2.85	-8.51	-7.14	-17.35
		663	12.57386	11.21331	11.30841	663	-2.84	-8.52	-7.14	-17.36
		664	12.55966	11.18395	11.29283	664	-2.86	-8.55	-7.15	-17.38
		665	12.55966	11.16438	11.27726	665	-2.86	-8.57	-7.15	-17.36
		666	12.48864	11.11546	11.24611	666	-2.86	-8.54	-7.15	-17.35
		667	12.50284	11.17417	11.26168	667	-2.86	-8.53	-7.15	-17.35
		668	12.51705	11.19374	11.24611	668	-2.86	-8.53	-7.16	-17.36
		669	12.51705	11.19374	11.21495	669	-2.86	-8.6	-7.16	-17.36
		670	12.48864	11.19374	11.19938	670	-2.87	-8.57	-7.17	-17.37
		671	12.50284	11.23288	11.24611	671	-2.87	-8.54	-7.16	-17.37
		672	12.47443	11.20352	11.24611	672	-2.86	-8.57	-7.16	-17.36

673	12.44602	11.16438	11.19938	673	-2.86	-8.56	-7.17	-17.37
674	12.44602	11.11546	11.16822	674	-2.87	-8.54	-7.17	-17.37
675	12.41761	11.10568	11.1838	675	-2.87	-8.56	-7.17	-17.36
676	12.41761	11.14481	11.21495	676	-2.87	-8.56	-7.17	-17.36
677	12.44602	11.13503	11.21495	677	-2.87	-8.55	-7.17	-17.36
678	12.46023	11.1546	11.21495	678	-2.86	-8.56	-7.16	-17.35
679	12.41761	11.14481	11.21495	679	-2.87	-8.56	-7.17	-17.34
680	12.375	11.09589	11.21495	680	-2.87	-8.57	-7.17	-17.34
681	12.3608	11.06654	11.19938	681	-2.87	-8.58	-7.17	-17.35
682	12.33239	11.08611	11.16822	682	-2.87	-8.58	-7.17	-17.36
683	12.33239	11.11546	11.19938	683	-2.87	-8.56	-7.17	-17.35
684	12.3892	11.12524	11.1215	684	-2.87	-8.56	-7.18	-17.34
685	12.3892	11.09589	11.15265	685	-2.87	-8.58	-7.17	-17.34
686	12.33239	11.08611	11.21495	686	-2.86	-8.56	-7.16	-17.33
687	12.375	11.10568	11.21495	687	-2.87	-8.56	-7.17	-17.35
688	12.30398	11.09589	11.19938	688	-2.87	-8.55	-7.17	-17.37
689	12.28977	11.07632	11.16822	689	-2.87	-8.52	-7.17	-17.36
690	12.26136	11.06654	11.1838	690	-2.87	-8.55	-7.17	-17.34
691	12.23295	11.10568	11.19938	691	-2.87	-8.59	-7.17	-17.35
692	12.26136	11.11546	11.1838	692	-2.88	-8.59	-7.17	-17.35
693	12.19034	11.07632	11.13707	693	-2.88	-8.59	-7.18	-17.34
694	12.19034	11.05675	11.1215	694	-2.87	-8.6	-7.17	-17.33
695	12.16193	11.05675	11.15265	695	-2.88	-8.56	-7.17	-17.34
696	12.17614	11.05675	11.10592	696	-2.87	-8.58	-7.18	-17.33
697	12.19034	11.0274	11.10592	697	-2.88	-8.57	-7.18	-17.33
698	12.16193	11.03718	11.16822	698	-2.87	-8.59	-7.18	-17.34
699	12.20455	11.01761	11.10592	699	-2.87	-8.61	-7.17	-17.34
700	12.20455	11.04697	11.04361	700	-2.87	-8.58	-7.17	-17.33
701	12.16193	11.03718	11.10592	701	-2.87	-8.57	-7.18	-17.32
702	12.09091	11.0274	11.1838	702	-2.87	-8.58	-7.18	-17.33
703	12.11932	11.00783	11.15265	703	-2.87	-8.57	-7.18	-17.34
704	12.0767	10.96869	11.1215	704	-2.87	-8.59	-7.18	-17.35
705	12.0625	10.93933	11.1215	705	-2.86	-8.57	-7.17	-17.36
706	12.0625	10.94912	11.09034	706	-2.87	-8.58	-7.17	-17.36
707	12.03409	10.99804	11.05919	707	-2.87	-8.61	-7.18	-17.37
708	11.97727	10.99804	11.09034	708	-2.87	-8.57	-7.18	-17.38
709	11.94886	10.96869	11.10592	709	-2.87	-8.57	-7.18	-17.38
710	11.96307	10.9589	11.13707	710	-2.86	-8.58	-7.18	-17.37
711	12.00568	10.9589	11.1215	711	-2.87	-8.61	-7.18	-17.35
712	11.99148	10.9589	11.09034	712	-2.86	-8.57	-7.18	-17.33
713	11.94886	10.87084	11.07477	713	-2.86	-8.56	-7.18	-17.34
714	11.93466	10.87084	11.05919	714	-2.87	-8.57	-7.18	-17.33
715	11.97727	10.9002	11.09034	715	-2.86	-8.56	-7.18	-17.32
716	11.97727	10.9002	11.09034	716	-2.87	-8.6	-7.19	-17.33
717	11.94886	10.89041	11.07477	717	-2.88	-8.62	-7.19	-17.33

718	11.97727	10.88063	11.1215	718	-2.87	-8.56	-7.19	-17.33
719	11.90625	10.88063	11.09034	719	-2.87	-8.56	-7.19	-17.33
720	11.84943	10.88063	11.07477	720	-2.87	-8.59	-7.18	-17.34
721	11.83523	10.88063	11.04361	721	-2.87	-8.58	-7.19	-17.34
722	11.82102	10.89041	11.01246	722	-2.87	-8.58	-7.19	-17.33
723	11.80682	10.87084	11.05919	723	-2.88	-8.61	-7.19	-17.32
724	11.82102	10.84149	11.02804	724	-2.87	-8.61	-7.19	-17.33
725	11.83523	10.88063	10.99688	725	-2.87	-8.57	-7.19	-17.34
726	11.83523	10.87084	11.01246	726	-2.87	-8.61	-7.19	-17.32
727	11.84943	10.90998	11.05919	727	-2.86	-8.59	-7.19	-17.31
728	11.79261	10.84149	11.04361	728	-2.86	-8.59	-7.18	-17.32
729	11.79261	10.79256	11.02804	729	-2.87	-8.57	-7.18	-17.33
730	11.7642	10.82192	11.04361	730	-2.87	-8.58	-7.19	-17.32
731	11.75	10.80235	11.02804	731	-2.87	-8.58	-7.19	-17.31
732	11.75	10.74364	10.99688	732	-2.86	-8.6	-7.19	-17.32
733	11.7642	10.80235	11.01246	733	-2.86	-8.55	-7.19	-17.32
734	11.72159	10.80235	10.99688	734	-2.86	-8.61	-7.19	-17.33
735	11.70739	10.76321	10.99688	735	-2.87	-8.6	-7.19	-17.34
736	11.69318	10.76321	10.96573	736	-2.86	-8.58	-7.19	-17.34
737	11.67898	10.80235	10.98131	737	-2.86	-8.58	-7.19	-17.35
738	11.65057	10.74364	11.01246	738	-2.86	-8.58	-7.19	-17.36
739	11.66477	10.73386	11.01246	739	-2.87	-8.61	-7.2	-17.36
740	11.63636	10.76321	10.95016	740	-2.87	-8.61	-7.2	-17.36
741	11.60795	10.74364	10.93458	741	-2.87	-8.6	-7.2	-17.37
742	11.56534	10.72407	10.919	742	-2.87	-8.62	-7.2	-17.37
743	11.53693	10.7045	10.90343	743	-2.88	-8.6	-7.21	-17.37
744	11.56534	10.7045	10.90343	744	-2.87	-8.59	-7.2	-17.37
745	11.57955	10.72407	10.95016	745	-2.88	-8.6	-7.21	-17.37
746	11.59375	10.73386	10.88785	746	-2.87	-8.61	-7.21	-17.36
747	11.59375	10.74364	10.90343	747	-2.87	-8.6	-7.21	-17.35
748	11.56534	10.72407	10.93458	748	-2.88	-8.6	-7.21	-17.33
749	11.55114	10.67515	10.95016	749	-2.88	-8.6	-7.21	-17.34
750	11.49432	10.7045	10.88785	750	-2.88	-8.56	-7.21	-17.34
751	11.4375	10.73386	10.95016	751	-2.88	-8.65	-7.2	-17.32
752	11.40909	10.69472	10.96573	752	-2.87	-8.59	-7.2	-17.31
753	11.4375	10.66536	10.88785	753	-2.88	-8.61	-7.21	-17.32
754	11.4375	10.67515	10.87227	754	-2.88	-8.62	-7.21	-17.31
755	11.40909	10.67515	10.90343	755	-2.88	-8.6	-7.21	-17.3
756	11.33807	10.66536	10.919	756	-2.87	-8.59	-7.2	-17.3
757	11.35227	10.67515	10.90343	757	-2.87	-8.59	-7.2	-17.32
758	11.32386	10.65558	10.95016	758	-2.88	-8.63	-7.21	-17.32
759	11.33807	10.59687	10.96573	759	-2.87	-8.61	-7.2	-17.31
760	11.32386	10.62622	10.87227	760	-2.88	-8.63	-7.21	-17.31
761	11.30966	10.60665	10.8567	761	-2.88	-8.6	-7.21	-17.32
762	11.28125	10.60665	10.87227	762	-2.87	-8.59	-7.21	-17.31

763	11.28125	10.56751	10.8567	763	-2.87	-8.59	-7.21	-17.29
764	11.29545	10.5773	10.8567	764	-2.87	-8.61	-7.2	-17.3
765	11.23864	10.59687	10.87227	765	-2.87	-8.6	-7.2	-17.31
766	11.21023	10.56751	10.90343	766	-2.87	-8.59	-7.2	-17.3
767	11.21023	10.55773	10.90343	767	-2.87	-8.61	-7.2	-17.3
768	11.18182	10.55773	10.87227	768	-2.86	-8.61	-7.2	-17.3
769	11.18182	10.56751	10.87227	769	-2.87	-8.62	-7.21	-17.31
770	11.18182	10.55773	10.84112	770	-2.88	-8.62	-7.21	-17.31
771	11.1392	10.54795	10.8567	771	-2.87	-8.62	-7.21	-17.3
772	11.1392	10.55773	10.87227	772	-2.88	-8.64	-7.21	-17.31
773	11.1108	10.5773	10.8567	773	-2.88	-8.62	-7.21	-17.32
774	11.1108	10.55773	10.82555	774	-2.88	-8.66	-7.21	-17.31
775	11.1108	10.55773	10.8567	775	-2.87	-8.6	-7.21	-17.3
776	11.06818	10.56751	10.80997	776	-2.88	-8.63	-7.21	-17.31
777	11.06818	10.51859	10.76324	777	-2.87	-8.62	-7.21	-17.3
778	11.1108	10.50881	10.76324	778	-2.88	-8.62	-7.21	-17.29
779	11.06818	10.49902	10.76324	779	-2.87	-8.6	-7.2	-17.3
780	11.03977	10.52838	10.82555	780	-2.88	-8.61	-7.21	-17.31
781	10.99716	10.51859	10.80997	781	-2.87	-8.62	-7.2	-17.31
782	10.96875	10.46967	10.82555	782	-2.87	-8.61	-7.2	-17.32
783	10.95455	10.46967	10.87227	783	-2.88	-8.62	-7.21	-17.33
784	10.92614	10.46967	10.87227	784	-2.86	-8.59	-7.2	-17.31
785	10.92614	10.44031	10.87227	785	-2.87	-8.59	-7.21	-17.3
786	10.91193	10.39139	10.80997	786	-2.88	-8.64	-7.22	-17.31
787	10.91193	10.44031	10.77882	787	-2.89	-8.64	-7.22	-17.32
788	10.89773	10.41096	10.76324	788	-2.88	-8.67	-7.22	-17.33
789	10.88352	10.40117	10.77882	789	-2.88	-8.62	-7.21	-17.33
790	10.84091	10.39139	10.82555	790	-2.88	-8.64	-7.22	-17.34
791	10.8125	10.3816	10.77882	791	-2.88	-8.67	-7.22	-17.33
792	10.84091	10.35225	10.80997	792	-2.88	-8.66	-7.22	-17.31
793	10.84091	10.34247	10.79439	793	-2.88	-8.62	-7.22	-17.32
794	10.85511	10.33268	10.82555	794	-2.88	-8.61	-7.22	-17.31
795	10.84091	10.39139	10.77882	795	-2.89	-8.64	-7.22	-17.31
796	10.76989	10.3816	10.74766	796	-2.89	-8.65	-7.22	-17.32
797	10.75568	10.39139	10.73209	797	-2.89	-8.67	-7.22	-17.33
798	10.74148	10.39139	10.74766	798	-2.89	-8.65	-7.23	-17.34
799	10.71307	10.34247	10.74766	799	-2.89	-8.63	-7.23	-17.35
800	10.72727	10.35225	10.73209	800	-2.89	-8.66	-7.23	-17.35
801	10.71307	10.35225	10.70093	801	-2.88	-8.62	-7.23	-17.35
802	10.72727	10.34247	10.68536	802	-2.89	-8.62	-7.22	-17.35
803	10.68466	10.3229	10.68536	803	-2.88	-8.64	-7.22	-17.34
804	10.68466	10.31311	10.68536	804	-2.89	-8.64	-7.22	-17.35
805	10.65625	10.27397	10.70093	805	-2.89	-8.66	-7.23	-17.35
806	10.68466	10.27397	10.68536	806	-2.89	-8.67	-7.23	-17.36
807	10.67045	10.30333	10.71651	807	-2.89	-8.65	-7.24	-17.36

808	10.67045	10.28376	10.66978	808	-2.9	-8.66	-7.24	-17.37
809	10.62784	10.24462	10.70093	809	-2.89	-8.64	-7.24	-17.36
810	10.62784	10.23483	10.65421	810	-2.9	-8.67	-7.24	-17.36
811	10.57102	10.23483	10.65421	811	-2.9	-8.66	-7.24	-17.36
812	10.5142	10.22505	10.66978	812	-2.9	-8.66	-7.25	-17.37
813	10.5142	10.27397	10.63863	813	-2.9	-8.63	-7.25	-17.37
814	10.58523	10.23483	10.65421	814	-2.91	-8.68	-7.26	-17.37
815	10.57102	10.2544	10.65421	815	-2.9	-8.66	-7.25	-17.36
816	10.52841	10.24462	10.66978	816	-2.9	-8.64	-7.25	-17.36
817	10.55682	10.23483	10.66978	817	-2.91	-8.65	-7.26	-17.37
818	10.52841	10.21526	10.65421	818	-2.92	-8.67	-7.26	-17.37
819	10.5	10.19569	10.63863	819	-2.91	-8.67	-7.26	-17.37
820	10.54261	10.18591	10.62305	820	-2.91	-8.69	-7.26	-17.36
821	10.52841	10.19569	10.65421	821	-2.91	-8.69	-7.26	-17.35
822	10.47159	10.21526	10.65421	822	-2.91	-8.65	-7.26	-17.35
823	10.42898	10.19569	10.65421	823	-2.91	-8.66	-7.26	-17.35
824	10.41477	10.14677	10.65421	824	-2.91	-8.68	-7.26	-17.33
825	10.40057	10.13699	10.60748	825	-2.91	-8.7	-7.26	-17.32
826	10.41477	10.14677	10.60748	826	-2.91	-8.72	-7.26	-17.33
827	10.37216	10.15656	10.57632	827	-2.92	-8.67	-7.26	-17.34
828	10.34375	10.11742	10.57632	828	-2.91	-8.66	-7.26	-17.32
829	10.34375	10.09785	10.60748	829	-2.91	-8.68	-7.25	-17.31
830	10.31534	10.10763	10.57632	830	-2.91	-8.69	-7.25	-17.32
831	10.23011	10.1272	10.57632	831	-2.91	-8.69	-7.26	-17.33
832	10.28693	10.11742	10.57632	832	-2.9	-8.68	-7.25	-17.32
833	10.31534	10.09785	10.5919	833	-2.9	-8.67	-7.24	-17.3
834	10.30114	10.08806	10.56075	834	-2.89	-8.63	-7.24	-17.31
835	10.25852	10.09785	10.5296	835	-2.9	-8.64	-7.25	-17.31
836	10.1733	10.10763	10.51402	836	-2.9	-8.64	-7.24	-17.29
837	10.15909	10.08806	10.54517	837	-2.9	-8.67	-7.25	-17.3
838	10.1875	10.05871	10.54517	838	-2.9	-8.67	-7.25	-17.31
839	10.1733	10.06849	10.5296	839	-2.9	-8.66	-7.25	-17.32
840	10.1875	10.04892	10.54517	840	-2.9	-8.68	-7.25	-17.33
841	10.1875	10.04892	10.54517	841	-2.9	-8.67	-7.25	-17.33
842	10.14489	10.07828	10.54517	842	-2.9	-8.65	-7.25	-17.34
843	10.1875	10.04892	10.5919	843	-2.9	-8.67	-7.25	-17.34
844	10.2017	10.01957	10.56075	844	-2.9	-8.67	-7.25	-17.34
845	10.13068	10.01957	10.54517	845	-2.9	-8.66	-7.25	-17.35
846	10.13068	10.03914	10.54517	846	-2.9	-8.66	-7.25	-17.32
847	10.13068	10.01957	10.54517	847	-2.9	-8.66	-7.25	-17.31
848	10.11648	9.990215	10.51402	848	-2.9	-8.65	-7.25	-17.31
849	10.11648	10	10.48287	849	-2.9	-8.67	-7.26	-17.31
850	10.10227	10.01957	10.49844	850	-2.9	-8.68	-7.26	-17.29
851	10.07386	10	10.51402	851	-2.9	-8.68	-7.25	-17.29
852	10.01705	10.00978	10.5296	852	-2.9	-8.66	-7.26	-17.31

853	10.07386	9.990215	10.49844	853	-2.9	-8.66	-7.26	-17.3
854	10.07386	9.960861	10.54517	854	-2.9	-8.7	-7.26	-17.29
855	10.04545	9.980431	10.54517	855	-2.91	-8.67	-7.25	-17.29
856	10.03125	9.990215	10.5296	856	-2.91	-8.66	-7.26	-17.3
857	10.03125	10.01957	10.5296	857	-2.91	-8.67	-7.26	-17.29
858	9.988636	10	10.54517	858	-2.91	-8.65	-7.25	-17.28
859	9.988636	9.990215	10.57632	859	-2.9	-8.67	-7.25	-17.29
860	10.01705	9.970646	10.56075	860	-2.9	-8.68	-7.25	-17.29
861	9.974432	9.990215	10.51402	861	-2.9	-8.71	-7.25	-17.27
862	9.917614	9.970646	10.51402	862	-2.9	-8.68	-7.25	-17.27
863	9.903409	10	10.54517	863	-2.9	-8.7	-7.25	-17.29
864	9.889205	9.960861	10.5296	864	-2.9	-8.68	-7.25	-17.29
865	9.860795	9.960861	10.49844	865	-2.9	-8.65	-7.25	-17.3
866	9.860795	9.931507	10.49844	866	-2.89	-8.65	-7.24	-17.31
867	9.832386	9.941292	10.51402	867	-2.89	-8.67	-7.24	-17.3
868	9.846591	9.931507	10.5296	868	-2.89	-8.68	-7.24	-17.28
869	9.917614	9.921722	10.51402	869	-2.89	-8.69	-7.24	-17.29
870	9.860795	9.960861	10.48287	870	-2.89	-8.67	-7.24	-17.28
871	9.846591	9.921722	10.45171	871	-2.89	-8.66	-7.25	-17.28
872	9.832386	9.911937	10.49844	872	-2.9	-8.67	-7.25	-17.29
873	9.818182	9.892368	10.48287	873	-2.9	-8.69	-7.25	-17.31
874	9.818182	9.882583	10.49844	874	-2.89	-8.67	-7.25	-17.3
875	9.775568	9.921722	10.43614	875	-2.89	-8.67	-7.25	-17.29
876	9.803977	9.921722	10.43614	876	-2.9	-8.69	-7.25	-17.3
877	9.832386	9.882583	10.42056	877	-2.89	-8.68	-7.25	-17.3
878	9.818182	9.882583	10.42056	878	-2.9	-8.67	-7.25	-17.28
879	9.803977	9.892368	10.46729	879	-2.9	-8.65	-7.25	-17.28
880	9.761364	9.921722	10.48287	880	-2.9	-8.68	-7.25	-17.28
881	9.747159	9.902153	10.45171	881	-2.89	-8.69	-7.25	-17.3
882	9.732955	9.872798	10.42056	882	-2.9	-8.66	-7.25	-17.31
883	9.732955	9.863014	10.42056	883	-2.9	-8.66	-7.26	-17.33
884	9.732955	9.823875	10.38941	884	-2.9	-8.68	-7.26	-17.33
885	9.704545	9.863014	10.38941	885	-2.91	-8.7	-7.27	-17.34
886	9.704545	9.863014	10.42056	886	-2.9	-8.7	-7.26	-17.34
887	9.704545	9.872798	10.40498	887	-2.91	-8.68	-7.27	-17.34
888	9.71875	9.882583	10.42056	888	-2.91	-8.68	-7.27	-17.35
889	9.690341	9.882583	10.42056	889	-2.91	-8.7	-7.27	-17.34
890	9.690341	9.872798	10.38941	890	-2.91	-8.67	-7.27	-17.34
891	9.690341	9.843444	10.40498	891	-2.9	-8.73	-7.26	-17.34
892	9.690341	9.872798	10.43614	892	-2.89	-8.68	-7.26	-17.33
893	9.690341	9.863014	10.38941	893	-2.9	-8.69	-7.26	-17.33
894	9.676136	9.833659	10.37383	894	-2.9	-8.73	-7.26	-17.33
895	9.647727	9.81409	10.38941	895	-2.91	-8.72	-7.28	-17.35
896	9.619318	9.853229	10.38941	896	-2.91	-8.7	-7.27	-17.35
897	9.661932	9.833659	10.35826	897	-2.9	-8.67	-7.27	-17.35

898	9.633523	9.823875	10.37383	898	-2.91	-8.69	-7.28	-17.35
899	9.633523	9.81409	10.38941	899	-2.91	-8.68	-7.28	-17.35
900	9.619318	9.765166	10.37383	900	-2.91	-8.7	-7.28	-17.35
901	9.619318	9.784736	10.38941	901	-2.92	-8.71	-7.28	-17.36
902	9.605114	9.823875	10.40498	902	-2.91	-8.7	-7.27	-17.35
903	9.605114	9.823875	10.38941	903	-2.91	-8.69	-7.28	-17.35
904	9.5625	9.774951	10.37383	904	-2.91	-8.71	-7.28	-17.35
905	9.5625	9.804305	10.34268	905	-2.92	-8.73	-7.29	-17.36
906	9.519886	9.765166	10.31153	906	-2.93	-8.75	-7.29	-17.36
907	9.519886	9.735812	10.28037	907	-2.93	-8.78	-7.3	-17.36
908	9.477273	9.726027	10.29595	908	-2.94	-8.78	-7.31	-17.37
909	9.491477	9.726027	10.3271	909	-2.94	-8.74	-7.3	-17.37
910	9.519886	9.735812	10.3271	910	-2.93	-8.72	-7.3	-17.37
911	9.491477	9.706458	10.35826	911	-2.94	-8.72	-7.31	-17.37
912	9.448864	9.735812	10.34268	912	-2.93	-8.73	-7.3	-17.37
913	9.420455	9.716243	10.29595	913	-2.93	-8.75	-7.3	-17.37
914	9.477273	9.657534	10.29595	914	-2.93	-8.71	-7.3	-17.37
915	9.434659	9.667319	10.35826	915	-2.92	-8.73	-7.3	-17.36
916	9.40625	9.686888	10.34268	916	-2.93	-8.72	-7.3	-17.36
917	9.420455	9.677104	10.29595	917	-2.94	-8.78	-7.31	-17.37
918	9.420455	9.667319	10.29595	918	-2.94	-8.76	-7.3	-17.36
919	9.377841	9.657534	10.34268	919	-2.94	-8.75	-7.31	-17.36
920	9.363636	9.686888	10.3271	920	-2.94	-8.74	-7.31	-17.37
921	9.335227	9.667319	10.29595	921	-2.94	-8.75	-7.31	-17.37
922	9.349432	9.64775	10.28037	922	-2.93	-8.73	-7.31	-17.37
923	9.292614	9.677104	10.2648	923	-2.93	-8.73	-7.31	-17.36
924	9.306818	9.667319	10.31153	924	-2.94	-8.73	-7.31	-17.37
925	9.335227	9.637965	10.34268	925	-2.94	-8.72	-7.31	-17.37
926	9.363636	9.62818	10.29595	926	-2.94	-8.76	-7.31	-17.37
927	9.335227	9.598826	10.2648	927	-2.93	-8.74	-7.31	-17.37
928	9.292614	9.637965	10.28037	928	-2.94	-8.73	-7.31	-17.37
929	9.349432	9.667319	10.2648	929	-2.94	-8.72	-7.31	-17.37
930	9.335227	9.677104	10.23364	930	-2.94	-8.73	-7.31	-17.37
931	9.349432	9.618395	10.2648	931	-2.93	-8.74	-7.3	-17.36
932	9.321023	9.62818	10.28037	932	-2.93	-8.75	-7.31	-17.36
933	9.292614	9.608611	10.2648	933	-2.94	-8.73	-7.31	-17.37
934	9.278409	9.569472	10.31153	934	-2.94	-8.74	-7.32	-17.38
935	9.25	9.579256	10.29595	935	-2.95	-8.74	-7.32	-17.38
936	9.207386	9.540117	10.29595	936	-2.95	-8.78	-7.32	-17.37
937	9.235795	9.530333	10.3271	937	-2.95	-8.74	-7.32	-17.38
938	9.25	9.569472	10.29595	938	-2.95	-8.74	-7.32	-17.38
939	9.207386	9.569472	10.28037	939	-2.95	-8.74	-7.32	-17.38
940	9.235795	9.559687	10.23364	940	-2.95	-8.75	-7.32	-17.37
941	9.221591	9.559687	10.24922	941	-2.95	-8.76	-7.33	-17.38
942	9.25	9.559687	10.2648	942	-2.95	-8.74	-7.33	-17.38

943	9.235795	9.520548	10.24922	943	-2.96	-8.79	-7.33	-17.38
944	9.164773	9.540117	10.21807	944	-2.96	-8.81	-7.33	-17.38
945	9.178977	9.540117	10.21807	945	-2.95	-8.76	-7.33	-17.37
946	9.178977	9.540117	10.23364	946	-2.95	-8.73	-7.33	-17.37
947	9.193182	9.559687	10.21807	947	-2.95	-8.74	-7.33	-17.37
948	9.207386	9.530333	10.20249	948	-2.96	-8.77	-7.33	-17.38
949	9.207386	9.530333	10.23364	949	-2.96	-8.78	-7.33	-17.38
950	9.178977	9.500978	10.23364	950	-2.95	-8.77	-7.33	-17.38
951	9.122159	9.491194	10.20249	951	-2.95	-8.78	-7.33	-17.37
952	9.051136	9.520548	10.21807	952	-2.96	-8.78	-7.34	-17.38
953	9.065341	9.520548	10.21807	953	-2.96	-8.76	-7.34	-17.38
954	9.079545	9.491194	10.23364	954	-2.96	-8.75	-7.33	-17.37
955	9.036932	9.530333	10.21807	955	-2.96	-8.79	-7.33	-17.38
956	9.022727	9.491194	10.18692	956	-2.96	-8.75	-7.33	-17.38
957	9.079545	9.510763	10.20249	957	-2.95	-8.74	-7.33	-17.37
958	9.036932	9.46184	10.17134	958	-2.96	-8.79	-7.33	-17.37
959	9.065341	9.481409	10.18692	959	-2.96	-8.76	-7.33	-17.37
960	9.008523	9.471624	10.17134	960	-2.97	-8.77	-7.34	-17.38
961	9.022727	9.46184	10.14019	961	-2.96	-8.76	-7.33	-17.38
962	9.036932	9.471624	10.12461	962	-2.96	-8.76	-7.33	-17.38
963	9.036932	9.452055	10.18692	963	-2.96	-8.78	-7.33	-17.37
964	8.994318	9.422701	10.12461	964	-2.96	-8.74	-7.33	-17.37
965	9.022727	9.452055	10.14019	965	-2.96	-8.8	-7.34	-17.38
966	9.008523	9.491194	10.17134	966	-2.96	-8.78	-7.34	-17.38
967	9.008523	9.491194	10.15576	967	-2.96	-8.78	-7.33	-17.37
968	8.994318	9.510763	10.15576	968	-2.96	-8.77	-7.33	-17.37
969	8.980114	9.481409	10.12461	969	-2.96	-8.77	-7.33	-17.37
970	8.980114	9.481409	10.07788	970	-2.96	-8.8	-7.33	-17.37
971	8.9375	9.46184	10.12461	971	-2.97	-8.78	-7.34	-17.38
972	8.965909	9.471624	10.14019	972	-2.97	-8.83	-7.34	-17.38
973	8.980114	9.471624	10.10903	973	-2.97	-8.79	-7.34	-17.38
974	8.980114	9.46184	10.07788	974	-2.97	-8.81	-7.34	-17.38
975	8.965909	9.452055	10.10903	975	-2.97	-8.79	-7.34	-17.38
976	8.9375	9.452055	10.15576	976	-2.97	-8.79	-7.34	-17.38
977	8.951705	9.452055	10.17134	977	-2.97	-8.81	-7.35	-17.39
978	8.9375	9.452055	10.15576	978	-2.97	-8.8	-7.35	-17.38
979	8.923295	9.471624	10.09346	979	-2.97	-8.8	-7.35	-17.38
980	8.923295	9.481409	10.09346	980	-2.97	-8.81	-7.34	-17.38
981	8.866477	9.46184	10.17134	981	-2.97	-8.77	-7.34	-17.39
982	8.909091	9.44227	10.20249	982	-2.97	-8.78	-7.34	-17.38
983	8.923295	9.46184	10.18692	983	-2.97	-8.76	-7.35	-17.38
984	8.909091	9.491194	10.15576	984	-2.97	-8.77	-7.35	-17.38
985	8.894886	9.432485	10.20249	985	-2.97	-8.79	-7.35	-17.38
986	8.866477	9.432485	10.14019	986	-2.97	-8.8	-7.35	-17.38
987	8.838068	9.471624	10.12461	987	-2.97	-8.82	-7.35	-17.39

988	8.880682	9.46184	10.12461	988	-2.97	-8.81	-7.35	-17.39
989	8.880682	9.452055	10.07788	989	-2.97	-8.8	-7.35	-17.39
990	8.838068	9.412916	10.15576	990	-2.97	-8.8	-7.35	-17.39
991	8.838068	9.471624	10.14019	991	-2.96	-8.77	-7.34	-17.38
992	8.880682	9.46184	10.10903	992	-2.96	-8.82	-7.34	-17.38
993	8.894886	9.432485	10.09346	993	-2.96	-8.8	-7.34	-17.38
994	8.880682	9.452055	10.10903	994	-2.96	-8.78	-7.34	-17.38
995	8.880682	9.452055	10.07788	995	-2.96	-8.82	-7.34	-17.38
996	8.880682	9.452055	10.06231	996	-2.95	-8.79	-7.34	-17.37
997	8.866477	9.452055	10.07788	997	-2.95	-8.79	-7.33	-17.37
998	8.852273	9.412916	10.12461	998	-2.95	-8.81	-7.34	-17.38
999	8.866477	9.452055	10.12461	999	-2.95	-8.8	-7.34	-17.37
1000	8.866477	9.412916	10.10903	1000	-2.94	-8.73	-7.33	-17.37
1001	8.880682	9.412916	10.06231	1001	-2.95	-8.77	-7.34	-17.37
1002	8.894886	9.363992	10.09346	1002	-2.96	-8.8	-7.35	-17.36
1003	8.852273	9.383562	10.09346	1003	-2.96	-8.78	-7.35	-17.35
1004	8.823864	9.403131	10.09346	1004	-2.95	-8.8	-7.34	-17.36
1005	8.823864	9.383562	10.04673	1005	-2.95	-8.76	-7.33	-17.36
1006	8.823864	9.373777	10.04673	1006	-2.95	-8.79	-7.34	-17.35
1007	8.823864	9.383562	10.07788	1007	-2.94	-8.78	-7.33	-17.33
1008	8.809659	9.383562	10.09346	1008	-2.94	-8.78	-7.33	-17.33
1009	8.809659	9.373777	10.09346	1009	-2.94	-8.79	-7.32	-17.32
1010	8.823864	9.403131	10.09346	1010	-2.93	-8.79	-7.32	-17.31
1011	8.809659	9.393346	10.07788	1011	-2.93	-8.79	-7.32	-17.32
1012	8.823864	9.403131	10.07788	1012	-2.93	-8.78	-7.32	-17.33
1013	8.78125	9.393346	10.03115	1013	-2.93	-8.77	-7.32	-17.33
1014	8.78125	9.383562	10.04673	1014	-2.93	-8.79	-7.31	-17.32
1015	8.767045	9.354207	10.01558	1015	-2.93	-8.75	-7.31	-17.31
1016	8.78125	9.344423	10.03115	1016	-2.92	-8.79	-7.31	-17.32
1017	8.838068	9.393346	10.06231	1017	-2.93	-8.82	-7.32	-17.33
1018	8.823864	9.373777	10.07788	1018	-2.92	-8.77	-7.31	-17.31
1019	8.738636	9.373777	10.04673	1019	-2.92	-8.75	-7.31	-17.3
1020	8.724432	9.363992	10.01558	1020	-2.91	-8.77	-7.3	-17.3
1021	8.795455	9.363992	10.06231	1021	-2.91	-8.77	-7.3	-17.29
1022	8.78125	9.363992	10.04673	1022	-2.91	-8.77	-7.3	-17.28
1023	8.767045	9.363992	10.03115	1023	-2.91	-8.75	-7.3	-17.29
1024	8.752841	9.344423	10.03115	1024	-2.9	-8.72	-7.3	-17.3
1025	8.78125	9.334638	10.03115	1025	-2.9	-8.74	-7.3	-17.3
1026	8.78125	9.344423	10.03115	1026	-2.9	-8.76	-7.29	-17.28
1027	8.78125	9.403131	10.03115	1027	-2.9	-8.78	-7.29	-17.29
1028	8.752841	9.354207	10.03115	1028	-2.89	-8.72	-7.29	-17.29
1029	8.767045	9.373777	10.07788	1029	-2.89	-8.72	-7.28	-17.3
1030	8.78125	9.373777	10.06231	1030	-2.89	-8.71	-7.29	-17.29
1031	8.838068	9.383562	10.03115	1031	-2.89	-8.74	-7.28	-17.28
1032	8.809659	9.383562	10.03115	1032	-2.89	-8.71	-7.28	-17.28

1033	8.78125	9.334638	10.06231	1033	-2.89	-8.73	-7.28	-17.3
1034	8.752841	9.334638	10.01558	1034	-2.88	-8.76	-7.28	-17.29
1035	8.767045	9.324853	10.04673	1035	-2.89	-8.72	-7.29	-17.28
1036	8.752841	9.334638	10.06231	1036	-2.89	-8.71	-7.28	-17.28
1037	8.738636	9.373777	10.07788	1037	-2.88	-8.71	-7.28	-17.28
1038	8.752841	9.363992	10.09346	1038	-2.89	-8.78	-7.28	-17.27
1039	8.724432	9.324853	10.10903	1039	-2.88	-8.75	-7.28	-17.27
1040	8.752841	9.334638	10.09346	1040	-2.88	-8.74	-7.27	-17.27
1041	8.752841	9.334638	10.04673	1041	-2.87	-8.72	-7.27	-17.28
1042	8.724432	9.363992	10.01558	1042	-2.88	-8.75	-7.27	-17.29
1043	8.724432	9.373777	10.01558	1043	-2.87	-8.77	-7.27	-17.3
1044	8.696023	9.344423	10.03115	1044	-2.87	-8.78	-7.27	-17.3
1045	8.653409	9.324853	10.04673	1045	-2.87	-8.74	-7.27	-17.29
1046	8.653409	9.334638	10	1046	-2.87	-8.73	-7.27	-17.28
1047	8.653409	9.324853	10	1047	-2.87	-8.76	-7.27	-17.29
1048	8.696023	9.344423	10.03115	1048	-2.87	-8.74	-7.28	-17.3
1049	8.681818	9.363992	10.04673	1049	-2.87	-8.77	-7.28	-17.29
1050	8.681818	9.295499	10.07788	1050	-2.87	-8.78	-7.28	-17.29
1051	8.710227	9.315068	10.04673	1051	-2.87	-8.74	-7.27	-17.28
1052	8.710227	9.305284	10.03115	1052	-2.87	-8.73	-7.27	-17.3
1053	8.696023	9.344423	10.06231	1053	-2.87	-8.77	-7.28	-17.3
1054	8.653409	9.295499	10.10903	1054	-2.86	-8.75	-7.27	-17.28
1055	8.724432	9.236791	10.07788	1055	-2.87	-8.77	-7.28	-17.29
1056	8.710227	9.25636	10.06231	1056	-2.87	-8.75	-7.28	-17.3
1057	8.710227	9.324853	10.03115	1057	-2.86	-8.74	-7.27	-17.3
1058	8.681818	9.334638	10	1058	-2.86	-8.76	-7.27	-17.3
1059	8.653409	9.324853	10.01558	1059	-2.85	-8.73	-7.27	-17.31
1060	8.667614	9.354207	10.01558	1060	-2.86	-8.71	-7.28	-17.31
1061	8.653409	9.315068	9.984424	1061	-2.86	-8.76	-7.27	-17.29
1062	8.625	9.305284	10.01558	1062	-2.86	-8.73	-7.27	-17.29
1063	8.625	9.324853	10.01558	1063	-2.85	-8.74	-7.27	-17.29
1064	8.639205	9.305284	10	1064	-2.85	-8.71	-7.27	-17.29
1065	8.653409	9.295499	10	1065	-2.86	-8.73	-7.28	-17.28
1066	8.625	9.344423	9.968847	1066	-2.86	-8.78	-7.28	-17.28
1067	8.582386	9.305284	9.937695	1067	-2.85	-8.74	-7.27	-17.29
1068	8.610795	9.324853	9.968847	1068	-2.86	-8.72	-7.27	-17.29
1069	8.653409	9.354207	10	1069	-2.86	-8.72	-7.28	-17.31
1070	8.639205	9.315068	10	1070	-2.86	-8.77	-7.28	-17.32
1071	8.625	9.315068	10.03115	1071	-2.86	-8.75	-7.28	-17.3
1072	8.568182	9.305284	10	1072	-2.86	-8.74	-7.27	-17.29
1073	8.539773	9.324853	9.984424	1073	-2.86	-8.76	-7.28	-17.3
1074	8.539773	9.27593	10	1074	-2.86	-8.74	-7.28	-17.29
1075	8.539773	9.27593	10	1075	-2.86	-8.76	-7.28	-17.3
1076	8.539773	9.295499	10.01558	1076	-2.86	-8.73	-7.27	-17.3
1077	8.610795	9.285714	10	1077	-2.85	-8.76	-7.27	-17.3

1078	8.568182	9.25636	10.01558	1078	-2.85	-8.72	-7.27	-17.29
1079	8.525568	9.25636	10.01558	1079	-2.85	-8.71	-7.27	-17.28
1080	8.539773	9.266145	10	1080	-2.85	-8.74	-7.27	-17.28
1081	8.539773	9.217221	10.01558	1081	-2.84	-8.73	-7.26	-17.29
1082	8.525568	9.27593	10.04673	1082	-2.84	-8.69	-7.26	-17.28
1083	8.525568	9.27593	10.03115	1083	-2.84	-8.71	-7.26	-17.27
1084	8.511364	9.27593	10.04673	1084	-2.84	-8.71	-7.25	-17.27
1085	8.525568	9.27593	9.984424	1085	-2.84	-8.71	-7.26	-17.28
1086	8.511364	9.266145	9.984424	1086	-2.84	-8.76	-7.26	-17.26
1087	8.497159	9.25636	10	1087	-2.84	-8.73	-7.25	-17.25
1088	8.511364	9.285714	9.937695	1088	-2.84	-8.7	-7.26	-17.27
1089	8.553977	9.25636	9.937695	1089	-2.84	-8.71	-7.26	-17.28
1090	8.525568	9.197652	9.922118	1090	-2.85	-8.73	-7.26	-17.27
1091	8.482955	9.207436	9.922118	1091	-2.84	-8.74	-7.25	-17.26
1092	8.411932	9.227006	9.968847	1092	-2.84	-8.69	-7.26	-17.26
1093	8.411932	9.246575	10	1093	-2.83	-8.68	-7.26	-17.27
1094	8.46875	9.236791	9.953271	1094	-2.83	-8.71	-7.25	-17.25
1095	8.46875	9.246575	9.984424	1095	-2.83	-8.75	-7.24	-17.24
1096	8.440341	9.27593	10.01558	1096	-2.82	-8.74	-7.24	-17.24
1097	8.440341	9.217221	10.01558	1097	-2.83	-8.75	-7.24	-17.26
1098	8.411932	9.207436	9.937695	1098	-2.83	-8.76	-7.25	-17.26
1099	8.440341	9.25636	9.922118	1099	-2.83	-8.74	-7.25	-17.24
1100	8.411932	9.227006	9.890966	1100	-2.83	-8.72	-7.25	-17.24
1101	8.426136	9.246575	9.937695	1101	-2.83	-8.74	-7.25	-17.24
1102	8.383523	9.227006	9.922118	1102	-2.83	-8.68	-7.24	-17.23
1103	8.369318	9.187867	9.922118	1103	-2.83	-8.71	-7.25	-17.24
1104	8.426136	9.197652	9.906542	1104	-2.83	-8.71	-7.25	-17.25
1105	8.454545	9.197652	9.906542	1105	-2.82	-8.69	-7.25	-17.25
1106	8.426136	9.246575	9.953271	1106	-2.83	-8.74	-7.24	-17.24
1107	8.411932	9.197652	10	1107	-2.83	-8.69	-7.25	-17.24
1108	8.397727	9.187867	9.984424	1108	-2.82	-8.75	-7.24	-17.25
1109	8.411932	9.217221	9.968847	1109	-2.83	-8.75	-7.24	-17.26
1110	8.355114	9.187867	9.953271	1110	-2.83	-8.72	-7.25	-17.25
1111	8.369318	9.168297	9.953271	1111	-2.82	-8.71	-7.24	-17.24
1112	8.411932	9.187867	9.953271	1112	-2.82	-8.72	-7.24	-17.25
1113	8.411932	9.119374	9.968847	1113	-2.82	-8.68	-7.24	-17.25
1114	8.355114	9.168297	9.968847	1114	-2.82	-8.72	-7.25	-17.25
1115	8.369318	9.217221	9.922118	1115	-2.83	-8.73	-7.25	-17.24
1116	8.3125	9.178082	9.953271	1116	-2.83	-8.68	-7.25	-17.26
1117	8.3125	9.168297	9.968847	1117	-2.83	-8.71	-7.25	-17.27
1118	8.340909	9.197652	9.937695	1118	-2.82	-8.7	-7.25	-17.26
1119	8.3125	9.187867	9.953271	1119	-2.82	-8.7	-7.25	-17.24
1120	8.355114	9.168297	9.937695	1120	-2.81	-8.69	-7.24	-17.23
1121	8.411932	9.168297	9.937695	1121	-2.82	-8.74	-7.23	-17.24
1122	8.426136	9.178082	9.922118	1122	-2.82	-8.71	-7.24	-17.26

1123	8.383523	9.187867	9.922118	1123	-2.82	-8.71	-7.24	-17.26
1124	8.340909	9.158513	9.906542	1124	-2.82	-8.73	-7.24	-17.27
1125	8.3125	9.178082	9.922118	1125	-2.82	-8.69	-7.24	-17.28
1126	8.269886	9.197652	9.875389	1126	-2.82	-8.69	-7.24	-17.29
1127	8.227273	9.158513	9.875389	1127	-2.82	-8.71	-7.25	-17.29
1128	8.269886	9.158513	9.82866	1128	-2.82	-8.68	-7.25	-17.3
1129	8.298295	9.119374	9.82866	1129	-2.83	-8.69	-7.25	-17.3
1130	8.255682	9.129159	9.890966	1130	-2.83	-8.72	-7.26	-17.31
1131	8.298295	9.099804	9.922118	1131	-2.83	-8.73	-7.26	-17.31
1132	8.298295	9.109589	9.875389	1132	-2.83	-8.67	-7.26	-17.31
1133	8.284091	9.148728	9.875389	1133	-2.83	-8.75	-7.26	-17.29
1134	8.269886	9.148728	9.875389	1134	-2.83	-8.75	-7.26	-17.28
1135	8.3125	9.158513	9.875389	1135	-2.83	-8.7	-7.26	-17.29
1136	8.269886	9.178082	9.875389	1136	-2.83	-8.67	-7.26	-17.28
1137	8.269886	9.138943	9.890966	1137	-2.84	-8.7	-7.26	-17.28
1138	8.255682	9.158513	9.906542	1138	-2.84	-8.71	-7.26	-17.27
1139	8.241477	9.129159	9.922118	1139	-2.84	-8.71	-7.26	-17.28
1140	8.255682	9.109589	9.906542	1140	-2.84	-8.7	-7.26	-17.27
1141	8.241477	9.080235	9.875389	1141	-2.84	-8.71	-7.26	-17.26
1142	8.198864	9.07045	9.875389	1142	-2.84	-8.7	-7.26	-17.26
1143	8.198864	9.099804	9.890966	1143	-2.83	-8.69	-7.25	-17.26
1144	8.227273	9.119374	9.890966	1144	-2.83	-8.72	-7.25	-17.27
1145	8.198864	9.109589	9.875389	1145	-2.83	-8.71	-7.26	-17.29
1146	8.184659	9.07045	9.859813	1146	-2.84	-8.72	-7.26	-17.3
1147	8.15625	9.07045	9.875389	1147	-2.84	-8.74	-7.25	-17.3
1148	8.198864	9.099804	9.937695	1148	-2.84	-8.74	-7.26	-17.3
1149	8.184659	9.099804	9.875389	1149	-2.84	-8.74	-7.26	-17.31
1150	8.170455	9.099804	9.844237	1150	-2.84	-8.76	-7.26	-17.31
1151	8.184659	9.099804	9.875389	1151	-2.84	-8.78	-7.26	-17.28
1152	8.198864	9.080235	9.890966	1152	-2.83	-8.74	-7.26	-17.27
1153	8.241477	9.080235	9.906542	1153	-2.84	-8.72	-7.26	-17.27
1154	8.255682	9.109589	9.859813	1154	-2.84	-8.73	-7.26	-17.26
1155	8.184659	9.080235	9.890966	1155	-2.83	-8.7	-7.25	-17.24
1156	8.170455	9.07045	9.859813	1156	-2.83	-8.72	-7.25	-17.25
1157	8.170455	9.080235	9.890966	1157	-2.83	-8.69	-7.25	-17.26
1158	8.198864	9.080235	9.875389	1158	-2.83	-8.71	-7.25	-17.25
1159	8.127841	9.080235	9.797508	1159	-2.83	-8.75	-7.25	-17.25
1160	8.085227	9.050881	9.82866	1160	-2.83	-8.71	-7.25	-17.24
1161	8.142045	9.07045	9.875389	1161	-2.83	-8.71	-7.24	-17.25
1162	8.170455	9.041096	9.859813	1162	-2.82	-8.69	-7.24	-17.25
1163	8.170455	9.080235	9.844237	1163	-2.82	-8.7	-7.24	-17.25
1164	8.15625	9.041096	9.82866	1164	-2.83	-8.7	-7.25	-17.24
1165	8.127841	9.060665	9.859813	1165	-2.82	-8.66	-7.24	-17.24
1166	8.198864	9.07045	9.906542	1166	-2.83	-8.69	-7.24	-17.24
1167	8.170455	9.041096	9.875389	1167	-2.82	-8.73	-7.23	-17.23

1168	8.170455	9.041096	9.875389	1168	-2.82	-8.71	-7.24	-17.24
1169	8.15625	9.041096	9.82866	1169	-2.82	-8.72	-7.24	-17.24
1170	8.127841	9.041096	9.82866	1170	-2.82	-8.74	-7.24	-17.23
1171	8.113636	9.031311	9.844237	1171	-2.82	-8.68	-7.23	-17.23
1172	8.113636	9.050881	9.875389	1172	-2.82	-8.69	-7.23	-17.23
1173	8.099432	9.050881	9.82866	1173	-2.82	-8.7	-7.24	-17.23
1174	8.127841	9.021526	9.813084	1174	-2.83	-8.75	-7.24	-17.23
1175	8.099432	9.001957	9.844237	1175	-2.82	-8.69	-7.23	-17.23
1176	8.099432	9.011742	9.844237	1176	-2.82	-8.75	-7.23	-17.22
1177	8.085227	9.001957	9.813084	1177	-2.82	-8.74	-7.24	-17.22
1178	8.099432	8.992172	9.844237	1178	-2.82	-8.68	-7.24	-17.24
1179	8.085227	9.021526	9.82866	1179	-2.82	-8.68	-7.24	-17.24
1180	8.099432	9.031311	9.813084	1180	-2.82	-8.73	-7.23	-17.22
1181	8.127841	9.011742	9.844237	1181	-2.82	-8.69	-7.24	-17.22
1182	8.113636	9.031311	9.797508	1182	-2.83	-8.7	-7.24	-17.24
1183	8.099432	8.992172	9.82866	1183	-2.82	-8.73	-7.24	-17.25
1184	8.042614	8.992172	9.844237	1184	-2.82	-8.71	-7.23	-17.25
1185	8.056818	9.041096	9.82866	1185	-2.82	-8.72	-7.23	-17.27
1186	8.056818	9.011742	9.844237	1186	-2.82	-8.71	-7.24	-17.27
1187	8.056818	8.982387	9.859813	1187	-2.83	-8.68	-7.25	-17.29
1188	8.042614	8.972603	9.890966	1188	-2.82	-8.76	-7.25	-17.29
1189	8.014205	8.992172	9.859813	1189	-2.82	-8.72	-7.25	-17.29
1190	8.056818	9.011742	9.797508	1190	-2.83	-8.7	-7.25	-17.29
1191	8.071023	9.031311	9.813084	1191	-2.82	-8.73	-7.25	-17.29
1192	8.014205	9.031311	9.813084	1192	-2.83	-8.71	-7.25	-17.3
1193	8.028409	9.021526	9.813084	1193	-2.83	-8.73	-7.25	-17.3
1194	8.028409	8.982387	9.82866	1194	-2.83	-8.69	-7.25	-17.3
1195	8.028409	9.001957	9.813084	1195	-2.83	-8.77	-7.26	-17.3
1196	8.028409	8.982387	9.82866	1196	-2.84	-8.76	-7.26	-17.3
1197	8.028409	8.923679	9.797508	1197	-2.84	-8.75	-7.26	-17.3
1198	8	8.962818	9.813084	1198	-2.83	-8.71	-7.25	-17.3
1199	7.971591	8.933464	9.859813	1199	-2.83	-8.71	-7.25	-17.3
1200	8.028409	8.943249	9.844237	1200	-2.83	-8.71	-7.26	-17.3
1201	8.014205	8.943249	9.844237	1201	-2.83	-8.69	-7.26	-17.3
1202	8	8.972603	9.844237	1202	-2.83	-8.73	-7.26	-17.3
1203	7.985795	8.972603	9.813084	1203	-2.84	-8.75	-7.26	-17.31
1204	7.985795	8.953033	9.797508	1204	-2.84	-8.76	-7.26	-17.31
1205	7.985795	8.943249	9.750779	1205	-2.84	-8.76	-7.26	-17.3
1206	7.985795	8.982387	9.719626	1206	-2.84	-8.75	-7.27	-17.31
1207	7.985795	8.962818	9.766355	1207	-2.85	-8.78	-7.28	-17.32
1208	7.985795	8.953033	9.719626	1208	-2.85	-8.75	-7.28	-17.32
1209	8.028409	8.913894	9.688474	1209	-2.85	-8.75	-7.28	-17.32
1210	7.985795	8.923679	9.750779	1210	-2.86	-8.77	-7.29	-17.33
1211	7.971591	8.943249	9.750779	1211	-2.85	-8.76	-7.28	-17.32
1212	7.928977	8.953033	9.750779	1212	-2.85	-8.75	-7.27	-17.31

1213	7.943182	8.923679	9.719626	1213	-2.85	-8.76	-7.27	-17.31
1214	7.943182	8.933464	9.813084	1214	-2.85	-8.77	-7.28	-17.32
1215	7.971591	8.923679	9.82866	1215	-2.85	-8.75	-7.27	-17.31
1216	7.943182	8.943249	9.750779	1216	-2.85	-8.73	-7.27	-17.31
1217	7.900568	8.913894	9.70405	1217	-2.85	-8.74	-7.28	-17.32
1218	7.914773	8.90411	9.688474	1218	-2.86	-8.76	-7.28	-17.32
1219	7.943182	8.874755	9.70405	1219	-2.85	-8.76	-7.28	-17.32
1220	7.872159	8.894325	9.70405	1220	-2.85	-8.78	-7.27	-17.32
1221	7.900568	8.864971	9.735202	1221	-2.85	-8.78	-7.28	-17.32
1222	7.943182	8.88454	9.797508	1222	-2.85	-8.74	-7.28	-17.32
1223	7.914773	8.894325	9.750779	1223	-2.85	-8.76	-7.28	-17.32
1224	7.900568	8.913894	9.70405	1224	-2.86	-8.76	-7.28	-17.33
1225	7.943182	8.88454	9.719626	1225	-2.86	-8.77	-7.28	-17.32
1226	7.928977	8.874755	9.735202	1226	-2.86	-8.75	-7.28	-17.33
1227	7.914773	8.90411	9.688474	1227	-2.86	-8.76	-7.28	-17.32
1228	7.900568	8.90411	9.750779	1228	-2.85	-8.72	-7.28	-17.32
1229	7.886364	8.923679	9.688474	1229	-2.85	-8.73	-7.28	-17.32
1230	7.900568	8.90411	9.610592	1230	-2.85	-8.71	-7.28	-17.32
1231	7.857955	8.894325	9.688474	1231	-2.85	-8.72	-7.28	-17.32
1232	7.829545	8.894325	9.688474	1232	-2.85	-8.77	-7.28	-17.32
1233	7.829545	8.90411	9.70405	1233	-2.86	-8.71	-7.28	-17.32
1234	7.84375	8.864971	9.719626	1234	-2.86	-8.72	-7.28	-17.32
1235	7.815341	8.874755	9.766355	1235	-2.86	-8.73	-7.28	-17.32
1236	7.801136	8.933464	9.735202	1236	-2.86	-8.7	-7.28	-17.32
1237	7.815341	8.90411	9.672897	1237	-2.86	-8.79	-7.28	-17.32
1238	7.857955	8.88454	9.672897	1238	-2.86	-8.75	-7.28	-17.32
1239	7.886364	8.90411	9.719626	1239	-2.86	-8.74	-7.28	-17.32
1240	7.886364	8.88454	9.719626	1240	-2.86	-8.73	-7.28	-17.32
1241	7.857955	8.90411	9.688474	1241	-2.86	-8.74	-7.28	-17.32
1242	7.829545	8.88454	9.672897	1242	-2.86	-8.74	-7.28	-17.32
1243	7.815341	8.874755	9.688474	1243	-2.86	-8.78	-7.28	-17.32
1244	7.815341	8.88454	9.672897	1244	-2.86	-8.76	-7.28	-17.32
1245	7.84375	8.855186	9.626168	1245	-2.87	-8.75	-7.28	-17.32
1246	7.815341	8.864971	9.610592	1246	-2.87	-8.73	-7.29	-17.32
1247	7.786932	8.88454	9.610592	1247	-2.87	-8.76	-7.28	-17.32
1248	7.758523	8.88454	9.641745	1248	-2.86	-8.79	-7.27	-17.31
1249	7.786932	8.874755	9.657321	1249	-2.86	-8.78	-7.28	-17.32
1250	7.829545	8.88454	9.688474	1250	-2.86	-8.76	-7.28	-17.32
1251	7.84375	8.88454	9.688474	1251	-2.86	-8.73	-7.28	-17.32
1252	7.829545	8.88454	9.657321	1252	-2.87	-8.77	-7.28	-17.32
1253	7.815341	8.894325	9.641745	1253	-2.87	-8.77	-7.29	-17.32
1254	7.829545	8.874755	9.672897	1254	-2.86	-8.73	-7.29	-17.32
1255	7.815341	8.894325	9.626168	1255	-2.87	-8.76	-7.29	-17.33
1256	7.829545	8.88454	9.610592	1256	-2.87	-8.76	-7.29	-17.33
1257	7.815341	8.88454	9.626168	1257	-2.87	-8.74	-7.29	-17.32

1258	7.829545	8.874755	9.595016	1258	-2.88	-8.79	-7.3	-17.33
1259	7.84375	8.835616	9.626168	1259	-2.87	-8.81	-7.29	-17.33
1260	7.786932	8.835616	9.626168	1260	-2.87	-8.79	-7.29	-17.33
1261	7.786932	8.855186	9.641745	1261	-2.87	-8.78	-7.29	-17.33
1262	7.758523	8.855186	9.641745	1262	-2.87	-8.76	-7.29	-17.33
1263	7.801136	8.845401	9.626168	1263	-2.87	-8.76	-7.29	-17.32

HigherRH_exp_16

Experiment type: Higher humidity experiment. This experiment consisted of just an empty petridish. There was not a humidity buffer inside the chamber. The sample was raised 13.3 cm off the chamber floor. Chiller was set to - 15°C. Temperature around the sample was controlled by the chiller. The pressure ranged from 5.5-6.2 mbar. Two open gallon sized bag and four open sandwich bags of water ice were placed around the sample.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= atmosphere 3= humidity buffer 4= sample

Mass		RH				T				
Min.	Mass	Min.	Ch02	Ch03	Ch04	Min.	Ch01	Ch02	Ch03	Ch04
0	242.78	0	54.16477	28.9726	8.146417	0	12.97	-7.49	-8.88	-18.93
1	242.52	1	45.08807	30.64579	12.1028	1	-0.65	-8.51	-9.19	-18.92
3	242.01	2	35.85511	27.64188	11.47975	2	-5.48	-12.54	-11.36	-19.71
5	241.88	3	27.46023	21.36986	11.7134	3	-5.94	-11.67	-12.39	-20.11
7	241.89	4	20.94034	17.65166	13.33333	4	-4.99	-10.21	-12.42	-20.29
9	241.91	5	14.875	15.01957	14.25234	5	-4.32	-9.68	-12.5	-20.41
11	241.92	6	9.818182	12.32877	12.78816	6	-3.82	-9.07	-12.82	-20.49
13	241.92	7	6.565341	10	9.82866	7	-3.41	-8.08	-13.42	-20.58
15	241.92	8	4.732955	8.287671	7.024922	8	-3.19	-7.51	-13.75	-20.67
17	241.92	9	3.653409	7.113503	5.031153	9	-3.11	-7.22	-13.63	-20.71
19	241.92	10	2.957386	6.399217	3.629283	10	-3.08	-7.01	-13.48	-20.73
21	241.92	11	2.53125	5.890411	2.647975	11	-3.07	-6.84	-13.39	-20.74
23	241.92	12	2.303977	5.55773	1.993769	12	-3.07	-6.7	-13.37	-20.75
25	241.91	13	2.161932	5.381605	1.542056	13	-3.07	-6.57	-13.36	-20.75
27	241.92	14	2.0625	5.254403	1.246106	14	-3.07	-6.46	-13.35	-20.75
29	241.91	15	2.005682	5.156556	1.090343	15	-3.07	-6.36	-13.34	-20.74
31	241.91	16	2.019886	5.088063	0.934579	16	-3.08	-6.29	-13.35	-20.74
33	241.91	17	2.048295	5.019569	0.700935	17	-3.09	-6.21	-13.35	-20.74

35	241.91	18	2.0625	5	0.5919	18	-3.09	-6.13	-13.35	-20.73
37	241.91	19	2.105114	4.970646	0.576324	19	-3.11	-6.07	-13.34	-20.72
39	241.91	20	2.133523	4.951076	0.545171	20	-3.1	-5.99	-13.33	-20.71
41	241.91	21	2.190341	4.960861	0.498442	21	-3.11	-5.95	-13.33	-20.71
43	241.91	22	2.261364	4.951076	0.514019	22	-3.11	-5.88	-13.32	-20.7
45	241.91	23	2.332386	4.960861	0.498442	23	-3.11	-5.83	-13.31	-20.69
47	241.91	24	2.403409	4.931507	0.482866	24	-3.11	-5.78	-13.3	-20.68
49	241.91	25	2.474432	4.921722	0.514019	25	-3.12	-5.73	-13.29	-20.66
51	241.91	26	2.517045	4.911937	0.529595	26	-3.12	-5.68	-13.29	-20.65
53	241.91	27	2.616477	4.902153	0.545171	27	-3.12	-5.64	-13.28	-20.65
55	241.9	28	2.744318	4.931507	0.529595	28	-3.11	-5.59	-13.27	-20.63
57	241.9	29	2.829545	4.941292	0.560748	29	-3.11	-5.55	-13.26	-20.62
59	241.9	30	2.928977	4.941292	0.5919	30	-3.12	-5.52	-13.26	-20.61
61	241.9	31	3.071023	4.941292	0.623053	31	-3.12	-5.48	-13.25	-20.6
63	241.91	32	3.15625	4.990215	0.623053	32	-3.13	-5.46	-13.25	-20.59
65	241.91	33	3.213068	4.980431	0.700935	33	-3.13	-5.44	-13.25	-20.58
67	241.91	34	3.255682	5.009785	0.747664	34	-3.14	-5.41	-13.25	-20.57
69	241.91	35	3.340909	5.058708	0.778816	35	-3.14	-5.37	-13.23	-20.55
71	241.91	36	3.383523	5.078278	0.825545	36	-3.14	-5.35	-13.23	-20.53
73	241.91	37	3.46875	5.048924	0.872274	37	-3.14	-5.33	-13.22	-20.51
75	241.91	38	3.482955	5.048924	0.825545	38	-3.14	-5.3	-13.21	-20.49
77	241.91	39	3.539773	5.048924	0.841121	39	-3.15	-5.27	-13.21	-20.47
79	241.91	40	3.610795	5.068493	0.856698	40	-3.16	-5.25	-13.21	-20.44
81	241.9	41	3.710227	5.068493	0.919003	41	-3.16	-5.23	-13.21	-20.4
83	241.91	42	3.724432	5.039139	0.965732	42	-3.16	-5.2	-13.2	-20.35
85	241.91	43	3.78125	5.088063	1.028037	43	-3.16	-5.18	-13.2	-20.3
87	241.9	44	3.880682	5.117417	1.043614	44	-3.16	-5.16	-13.19	-20.25
89	241.9	45	3.980114	5.127202	1.074766	45	-3.16	-5.15	-13.18	-20.22
91	241.91	46	4.008523	5.136986	1.090343	46	-3.17	-5.13	-13.18	-20.2
93	241.91	47	4.065341	5.146771	1.121495	47	-3.17	-5.12	-13.17	-20.18
95	241.91	48	4.079545	5.176125	1.105919	48	-3.17	-5.11	-13.17	-20.17
97	241.91	49	4.122159	5.205479	1.137072	49	-3.17	-5.09	-13.17	-20.15
99	241.91	50	4.136364	5.205479	1.137072	50	-3.17	-5.06	-13.16	-20.13
101	241.9	51	4.207386	5.215264	1.183801	51	-3.17	-5.05	-13.15	-20.12
103	241.91	52	4.25	5.225049	1.246106	52	-3.17	-5.04	-13.15	-20.1
105	241.91	53	4.292614	5.273973	1.292835	53	-3.16	-5.01	-13.14	-20.08
107	241.91	54	4.420455	5.381605	1.448598	54	-3.13	-4.99	-13.14	-20.07
109	241.91	55	4.519886	5.430528	1.510903	55	-3.14	-5.05	-13.13	-20.05
111	241.91	56	4.505682	5.420744	1.479751	56	-3.14	-5.03	-13.12	-20.03
113	241.91	57	4.505682	5.410959	1.417445	57	-3.15	-5.01	-13.11	-20.02
115	241.91	58	4.505682	5.381605	1.386293	58	-3.16	-4.99	-13.11	-20
117	241.91	59	4.534091	5.322896	1.401869	59	-3.16	-4.97	-13.11	-19.99
119	241.91	60	4.590909	5.313112	1.448598	60	-3.15	-4.96	-13.1	-19.97
121	241.91	61	4.605114	5.342466	1.433022	61	-3.16	-4.95	-13.09	-19.96
123	241.91	62	4.619318	5.37182	1.495327	62	-3.16	-4.94	-13.09	-19.95

125	241.91	63	4.633523	5.410959	1.557632	63	-3.15	-4.91	-13.08	-19.93
127	241.91	64	4.647727	5.420744	1.495327	64	-3.16	-4.91	-13.08	-19.92
129	241.91	65	4.661932	5.430528	1.510903	65	-3.15	-4.89	-13.07	-19.9
131	241.91	66	4.704545	5.410959	1.557632	66	-3.15	-4.87	-13.06	-19.89
133	241.91	67	4.747159	5.450098	1.557632	67	-3.14	-4.86	-13.06	-19.87
135	241.91	68	4.789773	5.440313	1.588785	68	-3.14	-4.84	-13.04	-19.85
137	241.91	69	4.775568	5.469667	1.619938	69	-3.14	-4.83	-13.04	-19.84
139	241.91	70	4.846591	5.469667	1.697819	70	-3.13	-4.81	-13.04	-19.83
141	241.91	71	4.917614	5.459883	1.760125	71	-3.13	-4.82	-13.04	-19.82
143	241.91	72	4.875	5.469667	1.728972	72	-3.14	-4.82	-13.03	-19.81
145	241.91	73	4.875	5.450098	1.682243	73	-3.14	-4.8	-13.03	-19.8
147	241.91	74	4.889205	5.489237	1.65109	74	-3.14	-4.79	-13.03	-19.79
149	241.91	75	4.889205	5.528376	1.666667	75	-3.14	-4.79	-13.03	-19.78
151	241.91	76	4.889205	5.53816	1.697819	76	-3.14	-4.77	-13.02	-19.77
153	241.91	77	4.903409	5.528376	1.728972	77	-3.15	-4.77	-13.02	-19.76
155	241.91	78	4.946023	5.547945	1.82243	78	-3.14	-4.75	-13.01	-19.75
157	241.91	79	5.017045	5.518591	1.82243	79	-3.14	-4.73	-13.01	-19.74
159	241.91	80	5.130682	5.577299	1.931464	80	-3.1	-4.72	-13	-19.72
161	241.91	81	5.1875	5.636008	1.993769	81	-3.1	-4.75	-12.99	-19.7
163	241.91	82	5.144886	5.616438	1.94704	82	-3.12	-4.75	-12.98	-19.7
165	241.91	83	5.144886	5.616438	1.978193	83	-3.11	-4.72	-12.98	-19.69
167	241.91	84	5.159091	5.616438	1.978193	84	-3.11	-4.72	-12.97	-19.67
169	241.91	85	5.130682	5.616438	1.962617	85	-3.11	-4.7	-12.96	-19.66
171	241.91	86	5.144886	5.596869	1.978193	86	-3.1	-4.69	-12.95	-19.65
173	241.91	87	5.159091	5.606654	1.94704	87	-3.11	-4.69	-12.95	-19.64
175	241.92	88	5.159091	5.596869	1.978193	88	-3.1	-4.67	-12.94	-19.63
177	241.91	89	5.230114	5.626223	2.056075	89	-3.1	-4.67	-12.94	-19.62
179	241.91	90	5.258523	5.665362	2.040498	90	-3.11	-4.67	-12.95	-19.62
181	241.92	91	5.244318	5.665362	2.040498	91	-3.11	-4.66	-12.94	-19.61
183	241.92	92	5.215909	5.645793	2.056075	92	-3.12	-4.66	-12.94	-19.61
185	241.91	93	5.173295	5.684932	2.056075	93	-3.12	-4.65	-12.94	-19.6
187	241.92	94	5.1875	5.733855	2.102804	94	-3.12	-4.63	-12.93	-19.59
189	241.91	95	5.215909	5.74364	2.071651	95	-3.12	-4.62	-12.93	-19.58
191	241.91	96	5.230114	5.704501	2.056075	96	-3.11	-4.6	-12.91	-19.56
193	241.92	97	5.244318	5.763209	2.087227	97	-3.1	-4.58	-12.91	-19.55
195	241.92	98	5.301136	5.792564	2.165109	98	-3.1	-4.6	-12.91	-19.54
197	241.92	99	5.286932	5.802348	2.180685	99	-3.1	-4.59	-12.9	-19.54
199	241.92	100	5.272727	5.812133	2.180685	100	-3.1	-4.58	-12.9	-19.53
201	241.92	101	5.286932	5.782779	2.165109	101	-3.1	-4.58	-12.89	-19.51
203	241.92	102	5.258523	5.74364	2.165109	102	-3.11	-4.57	-12.89	-19.51
205	241.92	103	5.272727	5.714286	2.165109	103	-3.11	-4.56	-12.88	-19.5
207	241.92	104	5.258523	5.763209	2.165109	104	-3.11	-4.55	-12.88	-19.49
209	241.92	105	5.301136	5.74364	2.180685	105	-3.1	-4.53	-12.87	-19.48
211	241.92	106	5.315341	5.763209	2.165109	106	-3.1	-4.52	-12.86	-19.47
213	241.92	107	5.329545	5.753425	2.133956	107	-3.1	-4.51	-12.86	-19.46

215	241.92	108	5.315341	5.753425	2.165109	108	-3.1	-4.49	-12.85	-19.45
217	241.92	109	5.286932	5.733855	2.211838	109	-3.09	-4.48	-12.84	-19.44
219	241.92	110	5.286932	5.74364	2.165109	110	-3.1	-4.48	-12.84	-19.43
221	241.92	111	5.34375	5.753425	2.149533	111	-3.09	-4.46	-12.83	-19.42
223	241.92	112	5.329545	5.74364	2.196262	112	-3.09	-4.45	-12.83	-19.41
225	241.92	113	5.34375	5.763209	2.211838	113	-3.09	-4.44	-12.82	-19.41
227	241.92	114	5.357955	5.812133	2.258567	114	-3.07	-4.41	-12.8	-19.39
229	241.92	115	5.428977	5.870841	2.305296	115	-3.07	-4.42	-12.8	-19.38
231	241.92	116	5.428977	5.841487	2.274143	116	-3.07	-4.42	-12.81	-19.38
233	241.92	117	5.414773	5.812133	2.242991	117	-3.08	-4.42	-12.81	-19.38
235	241.92	118	5.372159	5.792564	2.227414	118	-3.09	-4.41	-12.8	-19.37
237	241.92	119	5.34375	5.812133	2.211838	119	-3.09	-4.4	-12.8	-19.37
239	241.92	120	5.315341	5.861057	2.227414	120	-3.09	-4.4	-12.8	-19.36
241	241.92	121	5.329545	5.812133	2.28972	121	-3.08	-4.38	-12.79	-19.35
243	241.92	122	5.386364	5.821918	2.242991	122	-3.07	-4.37	-12.79	-19.34
245	241.92	123	5.400568	5.851272	2.258567	123	-3.07	-4.37	-12.78	-19.33
247	241.92	124	5.386364	5.851272	2.28972	124	-3.07	-4.37	-12.78	-19.32
249	241.92	125	5.414773	5.890411	2.336449	125	-3.07	-4.36	-12.77	-19.32
251	241.92	126	5.400568	5.880626	2.336449	126	-3.07	-4.35	-12.77	-19.31
253	241.92	127	5.357955	5.841487	2.336449	127	-3.07	-4.34	-12.76	-19.3
255	241.92	128	5.400568	5.831703	2.352025	128	-3.07	-4.34	-12.76	-19.3
257	241.92	129	5.400568	5.841487	2.367601	129	-3.07	-4.33	-12.76	-19.29
259	241.92	130	5.457386	5.861057	2.336449	130	-3.07	-4.32	-12.76	-19.29
261	241.92	131	5.414773	5.90998	2.336449	131	-3.07	-4.31	-12.76	-19.28
263	241.92	132	5.386364	5.880626	2.274143	132	-3.06	-4.31	-12.75	-19.27
265	241.92	133	5.400568	5.870841	2.28972	133	-3.06	-4.29	-12.74	-19.26
267	241.92	134	5.400568	5.890411	2.336449	134	-3.06	-4.29	-12.74	-19.25
269	241.92	135	5.414773	5.92955	2.336449	135	-3.06	-4.28	-12.73	-19.25
271	241.92	136	5.428977	5.890411	2.367601	136	-3.03	-4.27	-12.73	-19.24
273	241.92	137	5.457386	5.851272	2.383178	137	-3	-4.26	-12.72	-19.23
275	241.92	138	5.457386	5.890411	2.367601	138	-3.01	-4.26	-12.72	-19.23
277	241.92	139	5.471591	5.92955	2.398754	139	-3.01	-4.24	-12.71	-19.22
279	241.92	140	5.514205	5.880626	2.336449	140	-3.02	-4.24	-12.71	-19.21
281	241.92	141	5.485795	5.861057	2.367601	141	-3.04	-4.25	-12.72	-19.22
283	241.92	142	5.414773	5.92955	2.352025	142	-3.04	-4.24	-12.72	-19.21
285	241.92	143	5.400568	5.958904	2.367601	143	-3.04	-4.22	-12.72	-19.2
287	241.92	144	5.485795	5.949119	2.398754	144	-3.03	-4.21	-12.7	-19.19
289	241.92	145	5.528409	5.958904	2.398754	145	-3.02	-4.2	-12.69	-19.18
291	241.92	146	5.485795	5.90998	2.429907	146	-3.03	-4.2	-12.7	-19.18
293	241.92	147	5.457386	5.92955	2.476636	147	-3.02	-4.19	-12.69	-19.17
295	241.92	148	5.414773	5.949119	2.476636	148	-3.02	-4.19	-12.69	-19.17
297	241.92	149	5.471591	5.949119	2.461059	149	-3.02	-4.18	-12.69	-19.16
299	241.92	150	5.514205	5.958904	2.445483	150	-3.02	-4.18	-12.69	-19.16
301	241.92	151	5.514205	5.978474	2.461059	151	-3.03	-4.18	-12.69	-19.15
303	241.92	152	5.5	5.978474	2.461059	152	-3.02	-4.16	-12.68	-19.14

305	241.92	153	5.542614	5.968689	2.476636	153	-3.02	-4.16	-12.68	-19.14
307	241.92	154	5.528409	5.949119	2.492212	154	-3.02	-4.16	-12.67	-19.13
309	241.92	155	5.528409	5.958904	2.429907	155	-3.03	-4.16	-12.68	-19.14
311	241.92	156	5.471591	5.939335	2.41433	156	-3.02	-4.14	-12.67	-19.12
313	241.92	157	5.5	5.968689	2.429907	157	-3.02	-4.13	-12.67	-19.12
315	241.92	158	5.542614	5.988258	2.461059	158	-3.02	-4.13	-12.66	-19.11
317	241.92	159	5.571023	5.968689	2.492212	159	-3.01	-4.12	-12.65	-19.1
319	241.92	160	5.571023	5.978474	2.523364	160	-3	-4.11	-12.65	-19.09
321	241.92	161	5.571023	6.007828	2.507788	161	-3	-4.11	-12.65	-19.09
323	241.92	162	5.542614	5.988258	2.445483	162	-3.01	-4.11	-12.65	-19.09
325	241.92	163	5.571023	5.988258	2.476636	163	-3	-4.1	-12.65	-19.08
327	241.92	164	5.571023	5.988258	2.461059	164	-3.01	-4.1	-12.65	-19.08
329	241.92	165	5.528409	5.998043	2.492212	165	-3.01	-4.09	-12.65	-19.08
331	241.92	166	5.514205	6.037182	2.476636	166	-3.01	-4.08	-12.64	-19.07
333	241.92	167	5.542614	6.037182	2.523364	167	-3.01	-4.08	-12.64	-19.07
335	241.93	168	5.571023	6.027397	2.554517	168	-3	-4.07	-12.64	-19.06
337	241.92	169	5.599432	6.037182	2.554517	169	-3	-4.07	-12.64	-19.06
339	241.92	170	5.585227	5.968689	2.58567	170	-3	-4.06	-12.64	-19.05
341	241.92	171	5.599432	5.988258	2.554517	171	-3	-4.05	-12.63	-19.04
343	241.92	172	5.613636	6.027397	2.570093	172	-3.01	-4.06	-12.64	-19.05
345	241.92	173	5.613636	5.988258	2.58567	173	-3	-4.05	-12.63	-19.04
347	241.92	174	5.627841	6.027397	2.58567	174	-3	-4.04	-12.62	-19.03
349	241.92	175	5.65625	6.017613	2.554517	175	-3	-4.03	-12.62	-19.02
351	241.92	176	5.585227	5.998043	2.554517	176	-2.99	-4.02	-12.61	-19.01
353	241.92	177	5.571023	6.007828	2.554517	177	-2.99	-4.02	-12.61	-19.01
355	241.92	178	5.585227	6.037182	2.58567	178	-2.98	-4	-12.6	-19
357	241.92	179	5.627841	6.027397	2.570093	179	-2.98	-4	-12.6	-18.99
359	241.92	180	5.670455	6.017613	2.58567	180	-2.99	-4	-12.6	-18.99
361	241.93	181	5.642045	6.027397	2.58567	181	-2.98	-3.99	-12.6	-18.99
363	241.92	182	5.65625	6.017613	2.601246	182	-2.99	-3.99	-12.6	-18.99
365	241.93	183	5.684659	6.027397	2.58567	183	-2.98	-3.98	-12.6	-18.98
367	241.92	184	5.65625	6.037182	2.647975	184	-2.99	-3.98	-12.59	-18.98
369	241.92	185	5.65625	6.056751	2.647975	185	-2.98	-3.97	-12.59	-18.97
371	241.92	186	5.65625	6.027397	2.616822	186	-2.98	-3.96	-12.59	-18.97
373	241.92	187	5.713068	6.027397	2.58567	187	-2.97	-3.95	-12.58	-18.96
375	241.92	188	5.727273	6.046967	2.58567	188	-2.98	-3.96	-12.58	-18.96
377	241.92	189	5.713068	6.037182	2.601246	189	-2.97	-3.95	-12.58	-18.95
379	241.93	190	5.698864	6.046967	2.632399	190	-2.97	-3.94	-12.57	-18.95
381	241.92	191	5.670455	6.066536	2.616822	191	-2.97	-3.93	-12.57	-18.94
383	241.92	192	5.670455	6.056751	2.632399	192	-2.97	-3.93	-12.58	-18.94
385	241.92	193	5.713068	6.076321	2.616822	193	-2.97	-3.92	-12.57	-18.94
387	241.92	194	5.684659	6.066536	2.58567	194	-2.96	-3.91	-12.56	-18.93
389	241.92	195	5.713068	6.056751	2.663551	195	-2.96	-3.91	-12.56	-18.93
391	241.93	196	5.741477	6.066536	2.663551	196	-2.96	-3.91	-12.56	-18.92
393	241.93	197	5.713068	6.105675	2.647975	197	-2.95	-3.9	-12.55	-18.91

395	241.92	198	5.670455	6.076321	2.632399	198	-2.95	-3.88	-12.54	-18.9
397	241.92	199	5.713068	6.066536	2.601246	199	-2.94	-3.87	-12.54	-18.9
399	241.93	200	5.727273	6.066536	2.601246	200	-2.95	-3.88	-12.55	-18.9
401	241.93	201	5.713068	6.086106	2.616822	201	-2.95	-3.87	-12.54	-18.9
403	241.92	202	5.698864	6.076321	2.616822	202	-2.94	-3.86	-12.54	-18.89
405	241.93	203	5.684659	6.105675	2.647975	203	-2.94	-3.86	-12.54	-18.89
407	241.92	204	5.741477	6.076321	2.647975	204	-2.94	-3.86	-12.54	-18.88
409	241.93	205	5.755682	6.056751	2.58567	205	-2.94	-3.85	-12.53	-18.88
411	241.92	206	5.698864	6.076321	2.616822	206	-2.94	-3.85	-12.53	-18.88
413	241.92	207	5.713068	6.046967	2.632399	207	-2.95	-3.85	-12.53	-18.87
415	241.92	208	5.741477	6.056751	2.632399	208	-2.95	-3.84	-12.53	-18.87
417	241.92	209	5.713068	6.066536	2.632399	209	-2.95	-3.83	-12.53	-18.86
419	241.92	210	5.727273	6.066536	2.616822	210	-2.94	-3.83	-12.52	-18.86
421	241.92	211	5.755682	6.066536	2.663551	211	-2.94	-3.83	-12.53	-18.86
423	241.92	212	5.698864	6.09589	2.647975	212	-2.94	-3.83	-12.52	-18.86
425	241.92	213	5.741477	6.066536	2.694704	213	-2.94	-3.82	-12.52	-18.85
427	241.92	214	5.741477	6.086106	2.663551	214	-2.93	-3.81	-12.51	-18.84
429	241.92	215	5.784091	6.066536	2.663551	215	-2.93	-3.8	-12.51	-18.83
431	241.92	216	5.8125	6.09589	2.647975	216	-2.93	-3.8	-12.51	-18.83
433	241.92	217	5.8125	6.135029	2.647975	217	-2.93	-3.8	-12.51	-18.83
435	241.92	218	5.784091	6.154599	2.679128	218	-2.93	-3.79	-12.51	-18.82
437	241.92	219	5.798295	6.135029	2.679128	219	-2.93	-3.79	-12.52	-18.83
439	241.92	220	5.769886	6.125245	2.694704	220	-2.93	-3.78	-12.51	-18.82
441	241.93	221	5.769886	6.105675	2.71028	221	-2.92	-3.77	-12.5	-18.81
443	241.92	222	5.855114	6.144814	2.694704	222	-2.92	-3.76	-12.49	-18.81
445	241.92	223	5.798295	6.135029	2.725857	223	-2.91	-3.76	-12.49	-18.8
447	241.93	224	5.741477	6.135029	2.772586	224	-2.91	-3.75	-12.49	-18.8
449	241.93	225	5.798295	6.144814	2.757009	225	-2.91	-3.75	-12.49	-18.79
451	241.93	226	5.784091	6.135029	2.757009	226	-2.91	-3.75	-12.49	-18.79
453	241.93	227	5.755682	6.105675	2.741433	227	-2.92	-3.75	-12.49	-18.79
455	241.93	228	5.769886	6.086106	2.71028	228	-2.92	-3.75	-12.5	-18.79
457	241.93	229	5.769886	6.09589	2.663551	229	-2.92	-3.74	-12.5	-18.79
459	241.93	230	5.755682	6.135029	2.663551	230	-2.91	-3.73	-12.49	-18.78
461	241.93	231	5.741477	6.144814	2.694704	231	-2.91	-3.72	-12.48	-18.77
463	241.93	232	5.741477	6.125245	2.757009	232	-2.9	-3.71	-12.47	-18.77
465	241.93	233	5.769886	6.125245	2.725857	233	-2.9	-3.71	-12.47	-18.77
467	241.93	234	5.755682	6.154599	2.757009	234	-2.9	-3.71	-12.47	-18.76
469	241.92	235	5.769886	6.164384	2.71028	235	-2.9	-3.7	-12.47	-18.76
471	241.93	236	5.769886	6.125245	2.741433	236	-2.91	-3.7	-12.47	-18.76
473	241.93	237	5.769886	6.125245	2.819315	237	-2.91	-3.7	-12.47	-18.76
475	241.93	238	5.840909	6.154599	2.803738	238	-2.9	-3.69	-12.47	-18.75
477	241.93	239	5.8125	6.135029	2.788162	239	-2.9	-3.7	-12.47	-18.75
479	241.93	240	5.784091	6.125245	2.788162	240	-2.91	-3.7	-12.47	-18.75
481	241.93	241	5.769886	6.154599	2.788162	241	-2.91	-3.7	-12.47	-18.75
483	241.93	242	5.784091	6.144814	2.741433	242	-2.91	-3.68	-12.47	-18.74

485	241.93	243	5.826705	6.125245	2.71028	243	-2.91	-3.68	-12.47	-18.74
487	241.93	244	5.8125	6.11546	2.725857	244	-2.91	-3.68	-12.47	-18.74
489	241.93	245	5.798295	6.125245	2.772586	245	-2.9	-3.66	-12.45	-18.73
491	241.93	246	5.784091	6.144814	2.819315	246	-2.91	-3.67	-12.46	-18.73
493	241.93	247	5.784091	6.144814	2.819315	247	-2.91	-3.66	-12.46	-18.73
495	241.93	248	5.755682	6.135029	2.834891	248	-2.91	-3.66	-12.45	-18.73
497	241.93	249	5.8125	6.154599	2.788162	249	-2.9	-3.65	-12.45	-18.72
499	241.93	250	5.8125	6.164384	2.803738	250	-2.9	-3.64	-12.44	-18.71
501	241.93	251	5.784091	6.193738	2.819315	251	-2.9	-3.64	-12.44	-18.71
503	241.93	252	5.784091	6.193738	2.803738	252	-2.9	-3.63	-12.44	-18.7
505	241.93	253	5.755682	6.174168	2.788162	253	-2.89	-3.62	-12.43	-18.7
507	241.93	254	5.826705	6.174168	2.819315	254	-2.89	-3.62	-12.43	-18.7
509	241.93	255	5.840909	6.144814	2.850467	255	-2.89	-3.62	-12.43	-18.69
511	241.92	256	5.798295	6.174168	2.803738	256	-2.89	-3.62	-12.43	-18.69
513	241.93	257	5.769886	6.174168	2.788162	257	-2.88	-3.6	-12.42	-18.68
515	241.93	258	5.8125	6.183953	2.788162	258	-2.89	-3.6	-12.42	-18.68
517	241.93	259	5.826705	6.154599	2.788162	259	-2.89	-3.6	-12.42	-18.68
519	241.93	260	5.840909	6.164384	2.866044	260	-2.88	-3.59	-12.41	-18.67
521	241.93	261	5.869318	6.242661	2.866044	261	-2.89	-3.59	-12.42	-18.67
523	241.93	262	5.840909	6.223092	2.850467	262	-2.88	-3.59	-12.41	-18.67
525	241.93	263	5.798295	6.203523	2.88162	263	-2.88	-3.58	-12.41	-18.66
527	241.93	264	5.784091	6.174168	2.850467	264	-2.89	-3.59	-12.42	-18.66
529	241.93	265	5.798295	6.164384	2.866044	265	-2.88	-3.58	-12.4	-18.65
531	241.93	266	5.8125	6.174168	2.834891	266	-2.88	-3.57	-12.41	-18.65
533	241.93	267	5.855114	6.174168	2.819315	267	-2.88	-3.57	-12.41	-18.65
535	241.93	268	5.869318	6.213307	2.834891	268	-2.88	-3.57	-12.41	-18.65
537	241.93	269	5.855114	6.213307	2.88162	269	-2.88	-3.57	-12.41	-18.65
539	241.93	270	5.840909	6.223092	2.88162	270	-2.89	-3.57	-12.41	-18.65
541	241.93	271	5.840909	6.213307	2.850467	271	-2.89	-3.56	-12.41	-18.65
543	241.92	272	5.855114	6.144814	2.803738	272	-2.89	-3.56	-12.4	-18.64
545	241.93	273	5.840909	6.164384	2.819315	273	-2.89	-3.56	-12.4	-18.64
547	241.93	274	5.8125	6.193738	2.819315	274	-2.88	-3.55	-12.4	-18.63
549	241.93	275	5.840909	6.193738	2.866044	275	-2.88	-3.54	-12.4	-18.63
551	241.93	276	5.855114	6.193738	2.866044	276	-2.88	-3.55	-12.4	-18.64
553	241.93	277	5.8125	6.164384	2.88162	277	-2.88	-3.53	-12.39	-18.63
555	241.92	278	5.840909	6.203523	2.866044	278	-2.87	-3.53	-12.38	-18.62
557	241.93	279	5.826705	6.213307	2.850467	279	-2.87	-3.52	-12.38	-18.62
559	241.93	280	5.840909	6.223092	2.88162	280	-2.86	-3.51	-12.37	-18.61
561	241.93	281	5.840909	6.223092	2.88162	281	-2.87	-3.51	-12.38	-18.62
563	241.93	282	5.883523	6.232877	2.834891	282	-2.87	-3.51	-12.38	-18.62
565	241.93	283	5.911932	6.223092	2.850467	283	-2.86	-3.51	-12.38	-18.62
567	241.93	284	5.911932	6.262231	2.866044	284	-2.86	-3.51	-12.38	-18.62
569	241.93	285	5.855114	6.232877	2.850467	285	-2.87	-3.5	-12.38	-18.62
571	241.93	286	5.883523	6.223092	2.850467	286	-2.87	-3.5	-12.38	-18.62
573	241.93	287	5.840909	6.223092	2.850467	287	-2.87	-3.5	-12.39	-18.62

575	241.93	288	5.869318	6.232877	2.88162	288	-2.87	-3.5	-12.39	-18.62
577	241.93	289	5.826705	6.242661	2.897196	289	-2.87	-3.49	-12.38	-18.61
579	241.93	290	5.840909	6.262231	2.897196	290	-2.87	-3.49	-12.38	-18.61
581	241.93	291	5.8125	6.272016	2.866044	291	-2.86	-3.48	-12.38	-18.61
583	241.93	292	5.826705	6.262231	2.88162	292	-2.86	-3.48	-12.38	-18.6
585	241.93	293	5.897727	6.262231	2.850467	293	-2.86	-3.47	-12.38	-18.6
587	241.93	294	5.883523	6.252446	2.866044	294	-2.86	-3.47	-12.37	-18.6
589	241.93	295	5.926136	6.242661	2.88162	295	-2.85	-3.46	-12.36	-18.59
591	241.93	296	5.911932	6.252446	2.88162	296	-2.86	-3.46	-12.36	-18.59
593	241.93	297	5.897727	6.223092	2.819315	297	-2.85	-3.45	-12.36	-18.58
595	241.93	298	5.869318	6.203523	2.834891	298	-2.85	-3.45	-12.36	-18.58
597	241.93	299	5.855114	6.242661	2.866044	299	-2.86	-3.45	-12.37	-18.58
599	241.93	300	5.840909	6.262231	2.834891	300	-2.86	-3.45	-12.37	-18.59
601	241.93	301	5.840909	6.242661	2.834891	301	-2.86	-3.44	-12.37	-18.58
603	241.93	302	5.855114	6.223092	2.850467	302	-2.87	-3.45	-12.37	-18.59
605	241.93	303	5.926136	6.252446	2.88162	303	-2.87	-3.44	-12.37	-18.58
607	241.93	304	5.911932	6.232877	2.88162	304	-2.86	-3.44	-12.36	-18.58
609	241.93	305	5.911932	6.223092	2.866044	305	-2.85	-3.43	-12.35	-18.57
611	241.93	306	5.883523	6.262231	2.866044	306	-2.85	-3.42	-12.35	-18.57
613	241.93	307	5.869318	6.262231	2.897196	307	-2.85	-3.42	-12.35	-18.57
615	241.93	308	5.869318	6.183953	2.897196	308	-2.85	-3.41	-12.35	-18.56
617	241.93	309	5.883523	6.174168	2.88162	309	-2.85	-3.41	-12.35	-18.56
619	241.93	310	5.897727	6.232877	2.897196	310	-2.85	-3.41	-12.35	-18.56
621	241.93	311	5.855114	6.223092	2.943925	311	-2.85	-3.41	-12.35	-18.56
623	241.93	312	5.869318	6.193738	2.975078	312	-2.85	-3.4	-12.35	-18.56
625	241.93	313	5.897727	6.223092	2.897196	313	-2.85	-3.4	-12.35	-18.56
627	241.93	314	5.911932	6.262231	2.897196	314	-2.84	-3.4	-12.34	-18.55
629	241.93	315	5.911932	6.252446	2.928349	315	-2.84	-3.39	-12.34	-18.54
631	241.93	316	5.869318	6.213307	2.928349	316	-2.84	-3.39	-12.35	-18.55
633	241.93	317	5.869318	6.252446	2.912773	317	-2.84	-3.38	-12.34	-18.54
635	241.93	318	5.869318	6.213307	2.912773	318	-2.84	-3.38	-12.34	-18.54
637	241.93	319	5.855114	6.213307	2.943925	319	-2.84	-3.39	-12.34	-18.54
639	241.93	320	5.869318	6.262231	2.990654	320	-2.84	-3.38	-12.34	-18.54
641	241.93	321	5.883523	6.252446	2.928349	321	-2.84	-3.38	-12.34	-18.54
643	241.93	322	5.911932	6.223092	2.943925	322	-2.85	-3.38	-12.34	-18.54
645	241.93	323	5.96875	6.232877	2.912773	323	-2.85	-3.38	-12.35	-18.54
647	241.93	324	5.96875	6.252446	2.928349	324	-2.84	-3.37	-12.34	-18.53
649	241.93	325	5.940341	6.223092	2.943925	325	-2.85	-3.37	-12.34	-18.53
651	241.93	326	5.911932	6.203523	2.959502	326	-2.84	-3.37	-12.34	-18.53
653	241.93	327	5.940341	6.232877	2.943925	327	-2.84	-3.37	-12.34	-18.53
655	241.93	328	5.869318	6.291585	2.943925	328	-2.84	-3.36	-12.34	-18.53
657	241.93	329	5.883523	6.30137	2.943925	329	-2.84	-3.36	-12.34	-18.53
659	241.93	330	5.926136	6.242661	2.975078	330	-2.83	-3.35	-12.33	-18.52
661	241.93	331	5.940341	6.272016	2.959502	331	-2.84	-3.35	-12.33	-18.52
663	241.93	332	5.911932	6.2818	2.943925	332	-2.84	-3.35	-12.33	-18.52

665	241.93	333	5.926136	6.262231	2.943925	333	-2.83	-3.34	-12.33	-18.51
667	241.93	334	5.926136	6.242661	2.943925	334	-2.83	-3.34	-12.33	-18.51
669	241.93	335	5.940341	6.242661	2.975078	335	-2.83	-3.33	-12.33	-18.51
671	241.93	336	5.997159	6.291585	3.006231	336	-2.83	-3.34	-12.33	-18.51
673	241.93	337	5.997159	6.252446	2.943925	337	-2.83	-3.35	-12.33	-18.51
675	241.93	338	5.940341	6.262231	2.928349	338	-2.82	-3.33	-12.32	-18.5
677	241.93	339	5.926136	6.262231	2.975078	339	-2.82	-3.33	-12.32	-18.5
679	241.93	340	5.911932	6.262231	2.990654	340	-2.82	-3.33	-12.32	-18.5
681	241.93	341	5.883523	6.262231	2.975078	341	-2.83	-3.33	-12.33	-18.51
683	241.93	342	5.897727	6.262231	2.943925	342	-2.83	-3.32	-12.32	-18.5
685	241.93	343	5.911932	6.262231	2.975078	343	-2.83	-3.32	-12.32	-18.5
687	241.93	344	5.911932	6.311155	2.975078	344	-2.84	-3.33	-12.33	-18.51
689	241.93	345	5.911932	6.311155	3.021807	345	-2.84	-3.32	-12.33	-18.51
691	241.93	346	5.911932	6.272016	3.006231	346	-2.83	-3.32	-12.32	-18.5
693	241.93	347	5.926136	6.30137	2.959502	347	-2.82	-3.31	-12.32	-18.49
695	241.93	348	5.911932	6.320939	2.928349	348	-2.82	-3.3	-12.31	-18.49
697	241.93	349	5.911932	6.2818	2.959502	349	-2.82	-3.3	-12.32	-18.49
699	241.93	350	5.911932	6.272016	3.006231	350	-2.82	-3.29	-12.31	-18.49
701	241.93	351	5.954545	6.330724	2.990654	351	-2.82	-3.29	-12.31	-18.48
703	241.93	352	5.96875	6.291585	2.975078	352	-2.82	-3.28	-12.31	-18.48
705	241.93	353	5.954545	6.291585	2.943925	353	-2.81	-3.28	-12.3	-18.48
707	241.93	354	5.940341	6.30137	2.928349	354	-2.81	-3.28	-12.3	-18.47
709	241.93	355	5.954545	6.291585	2.928349	355	-2.81	-3.28	-12.3	-18.47
711	241.93	356	5.96875	6.30137	2.975078	356	-2.81	-3.27	-12.3	-18.47
713	241.93	357	6.011364	6.252446	3.006231	357	-2.81	-3.27	-12.3	-18.47
715	241.93	358	5.96875	6.242661	3.006231	358	-2.81	-3.27	-12.3	-18.47
717	241.93	359	5.96875	6.272016	3.006231	359	-2.81	-3.26	-12.3	-18.47
719	241.93	360	5.96875	6.30137	2.959502	360	-2.81	-3.26	-12.29	-18.46
721	241.93	361	5.940341	6.340509	2.959502	361	-2.8	-3.26	-12.29	-18.46
723	241.93	362	5.954545	6.320939	2.959502	362	-2.8	-3.25	-12.29	-18.46
725	241.93	363	5.940341	6.320939	3.006231	363	-2.8	-3.25	-12.29	-18.46
727	241.93	364	5.911932	6.340509	2.959502	364	-2.8	-3.24	-12.29	-18.46
729	241.93	365	5.96875	6.340509	2.975078	365	-2.8	-3.24	-12.29	-18.46
731	241.93	366	5.954545	6.330724	2.990654	366	-2.8	-3.25	-12.29	-18.46
733	241.93	367	6.011364	6.291585	3.037383	367	-2.8	-3.24	-12.29	-18.46
735	241.93	368	5.997159	6.262231	3.006231	368	-2.8	-3.24	-12.29	-18.45
737	241.93	369	5.982955	6.320939	2.959502	369	-2.79	-3.23	-12.29	-18.45
739	241.93	370	6.025568	6.320939	2.990654	370	-2.79	-3.23	-12.28	-18.44
741	241.93	371	6.039773	6.311155	3.006231	371	-2.79	-3.22	-12.28	-18.44
743	241.93	372	5.997159	6.311155	2.990654	372	-2.78	-3.22	-12.28	-18.44
745	241.93	373	6.011364	6.272016	2.990654	373	-2.78	-3.21	-12.27	-18.43
747	241.93	374	5.940341	6.30137	2.990654	374	-2.78	-3.21	-12.27	-18.43
749	241.93	375	5.96875	6.311155	2.990654	375	-2.78	-3.21	-12.27	-18.43
751	241.93	376	5.997159	6.330724	2.990654	376	-2.78	-3.21	-12.27	-18.43
753	241.93	377	5.997159	6.340509	2.990654	377	-2.79	-3.21	-12.28	-18.44

755	241.93	378	5.997159	6.311155	3.021807	378	-2.79	-3.21	-12.28	-18.43
757	241.93	379	6.011364	6.311155	3.021807	379	-2.79	-3.2	-12.28	-18.43
759	241.93	380	5.96875	6.30137	3.037383	380	-2.79	-3.21	-12.29	-18.44
761	241.93	381	5.997159	6.350294	3.05296	381	-2.79	-3.22	-12.29	-18.44
763	241.93	382	5.982955	6.330724	3.006231	382	-2.79	-3.21	-12.28	-18.44
765	241.93	383	6.053977	6.272016	3.037383	383	-2.79	-3.2	-12.27	-18.43
767	241.93	384	6.068182	6.311155	3.021807	384	-2.79	-3.2	-12.28	-18.43
769	241.93	385	6.025568	6.330724	3.05296	385	-2.79	-3.19	-12.27	-18.43
771	241.93	386	6.025568	6.350294	3.05296	386	-2.79	-3.2	-12.27	-18.43
773	241.93	387	5.96875	6.369863	3.068536	387	-2.78	-3.19	-12.27	-18.43
775	241.93	388	5.982955	6.30137	3.037383	388	-2.79	-3.19	-12.27	-18.43
777	241.93	389	5.96875	6.30137	3.05296	389	-2.78	-3.19	-12.27	-18.43
779	241.93	390	5.997159	6.340509	3.037383	390	-2.78	-3.19	-12.27	-18.43
781	241.93	391	5.997159	6.350294	3.006231	391	-2.79	-3.19	-12.27	-18.43
783	241.93	392	6.025568	6.340509	2.990654	392	-2.79	-3.19	-12.28	-18.43
785	241.93	393	5.997159	6.340509	2.975078	393	-2.79	-3.19	-12.28	-18.43
787	241.93	394	5.997159	6.330724	3.006231	394	-2.79	-3.18	-12.27	-18.42
789	241.93	395	6.011364	6.340509	3.021807	395	-2.78	-3.18	-12.27	-18.42
791	241.93	396	6.011364	6.311155	3.006231	396	-2.78	-3.17	-12.26	-18.42
793	241.93	397	6.039773	6.369863	3.068536	397	-2.78	-3.17	-12.26	-18.41
795	241.93	398	5.997159	6.350294	3.068536	398	-2.77	-3.16	-12.26	-18.41
797	241.93	399	5.997159	6.30137	3.084112	399	-2.78	-3.17	-12.26	-18.41
799	241.93	400	6.025568	6.330724	3.021807	400	-2.77	-3.16	-12.25	-18.4
801	241.93	401	5.997159	6.30137	3.037383	401	-2.77	-3.15	-12.25	-18.4
803	241.93	402	5.982955	6.340509	3.068536	402	-2.76	-3.15	-12.24	-18.4
805	241.93	403	6.011364	6.369863	3.037383	403	-2.77	-3.15	-12.25	-18.4
807	241.93	404	6.039773	6.340509	3.021807	404	-2.76	-3.14	-12.24	-18.4
809	241.93	405	6.025568	6.330724	3.037383	405	-2.76	-3.13	-12.24	-18.39
811	241.93	406	6.039773	6.350294	3.084112	406	-2.76	-3.14	-12.25	-18.4
813	241.93	407	6.039773	6.330724	3.037383	407	-2.75	-3.13	-12.24	-18.39
815	241.93	408	6.011364	6.30137	3.006231	408	-2.76	-3.14	-12.24	-18.4
817	241.93	409	5.997159	6.320939	3.084112	409	-2.76	-3.13	-12.24	-18.39
819	241.93	410	5.997159	6.272016	3.115265	410	-2.76	-3.13	-12.24	-18.4
821	241.93	411	5.997159	6.30137	3.099688	411	-2.76	-3.13	-12.24	-18.39
823	241.93	412	6.011364	6.320939	3.084112	412	-2.76	-3.13	-12.24	-18.39
825	241.93	413	6.025568	6.350294	3.068536	413	-2.76	-3.13	-12.24	-18.39
827	241.93	414	6.053977	6.350294	3.099688	414	-2.76	-3.12	-12.24	-18.39
829	241.93	415	5.982955	6.350294	3.099688	415	-2.76	-3.12	-12.24	-18.39
831	241.93	416	6.068182	6.350294	3.037383	416	-2.77	-3.13	-12.25	-18.4
833	241.93	417	6.082386	6.340509	3.021807	417	-2.76	-3.12	-12.24	-18.39
835	241.93	418	6.053977	6.340509	3.05296	418	-2.76	-3.12	-12.24	-18.39
837	241.93	419	6.082386	6.30137	3.021807	419	-2.76	-3.11	-12.24	-18.38
839	241.93	420	6.053977	6.320939	3.068536	420	-2.76	-3.12	-12.24	-18.38
841	241.93	421	6.039773	6.311155	3.099688	421	-2.76	-3.12	-12.24	-18.39
843	241.93	422	5.997159	6.320939	3.130841	422	-2.75	-3.1	-12.23	-18.38

845	241.93	423	6.025568	6.320939	3.130841	423	-2.75	-3.1	-12.23	-18.37
847	241.93	424	6.011364	6.320939	3.05296	424	-2.75	-3.1	-12.23	-18.37
849	241.93	425	5.997159	6.360078	3.021807	425	-2.76	-3.1	-12.23	-18.38
851	241.93	426	6.068182	6.360078	3.05296	426	-2.76	-3.11	-12.24	-18.39
853	241.93	427	6.025568	6.350294	3.037383	427	-2.76	-3.1	-12.24	-18.38
855	241.93	428	6.025568	6.360078	3.05296	428	-2.76	-3.1	-12.23	-18.38
857	241.93	429	5.997159	6.330724	3.05296	429	-2.77	-3.1	-12.24	-18.38
859	241.93	430	6.011364	6.340509	3.05296	430	-2.76	-3.09	-12.23	-18.37
861	241.93	431	6.025568	6.350294	3.084112	431	-2.76	-3.09	-12.23	-18.37
863	241.93	432	6.039773	6.360078	3.099688	432	-2.75	-3.09	-12.22	-18.36
865	241.94	433	6.082386	6.409002	3.084112	433	-2.76	-3.09	-12.23	-18.37
867	241.93	434	6.068182	6.369863	3.037383	434	-2.75	-3.08	-12.22	-18.36
869	241.93	435	6.082386	6.369863	3.037383	435	-2.75	-3.08	-12.22	-18.36
871	241.93	436	6.096591	6.360078	3.068536	436	-2.75	-3.08	-12.22	-18.36
873	241.93	437	6.082386	6.340509	3.05296	437	-2.75	-3.08	-12.22	-18.36
875	241.93	438	6.039773	6.360078	3.05296	438	-2.75	-3.08	-12.22	-18.36
877	241.93	439	5.997159	6.360078	3.068536	439	-2.75	-3.07	-12.22	-18.36
879	241.94	440	5.96875	6.389432	3.068536	440	-2.76	-3.08	-12.22	-18.36
881	241.93	441	5.982955	6.340509	3.037383	441	-2.76	-3.08	-12.23	-18.37
883	241.93	442	6.025568	6.340509	3.006231	442	-2.76	-3.08	-12.23	-18.36
885	241.94	443	6.039773	6.350294	3.037383	443	-2.75	-3.07	-12.22	-18.36
887	241.93	444	6.053977	6.379648	3.068536	444	-2.75	-3.07	-12.22	-18.36
889	241.93	445	5.997159	6.389432	3.006231	445	-2.76	-3.07	-12.23	-18.36
891	241.93	446	5.997159	6.369863	2.975078	446	-2.76	-3.07	-12.23	-18.36
893	241.93	447	6.011364	6.330724	3.05296	447	-2.75	-3.06	-12.22	-18.35
895	241.93	448	5.982955	6.340509	3.084112	448	-2.74	-3.05	-12.21	-18.35
897	241.93	449	5.982955	6.369863	3.05296	449	-2.74	-3.05	-12.21	-18.34
899	241.93	450	5.997159	6.369863	3.05296	450	-2.75	-3.05	-12.21	-18.35
901	241.94	451	6.011364	6.379648	3.115265	451	-2.74	-3.05	-12.21	-18.35
903	241.94	452	5.997159	6.350294	3.099688	452	-2.74	-3.05	-12.21	-18.34
905	241.93	453	6.025568	6.379648	3.021807	453	-2.75	-3.05	-12.21	-18.35
907	241.93	454	6.039773	6.399217	3.05296	454	-2.75	-3.06	-12.22	-18.35
909	241.93	455	6.053977	6.409002	3.037383	455	-2.75	-3.05	-12.22	-18.35
911	241.93	456	6.011364	6.399217	3.068536	456	-2.75	-3.05	-12.21	-18.35
913	241.93	457	6.025568	6.360078	3.05296	457	-2.75	-3.04	-12.21	-18.34
915	241.94	458	5.997159	6.340509	3.037383	458	-2.74	-3.04	-12.2	-18.34
917	241.93	459	5.997159	6.379648	3.006231	459	-2.74	-3.03	-12.2	-18.33
919	241.93	460	5.96875	6.340509	3.021807	460	-2.74	-3.03	-12.2	-18.33
921	241.93	461	5.96875	6.30137	3.068536	461	-2.74	-3.04	-12.21	-18.34
923	241.93	462	5.997159	6.311155	3.084112	462	-2.74	-3.03	-12.2	-18.34
925	241.93	463	6.068182	6.350294	3.05296	463	-2.75	-3.04	-12.21	-18.34
927	241.93	464	6.053977	6.369863	3.021807	464	-2.74	-3.04	-12.21	-18.34
929	241.93	465	6.025568	6.330724	3.068536	465	-2.74	-3.03	-12.2	-18.34
931	241.93	466	6.053977	6.350294	3.037383	466	-2.74	-3.03	-12.2	-18.34
933	241.93	467	6.053977	6.330724	3.05296	467	-2.74	-3.03	-12.2	-18.34

935	241.93	468	6.068182	6.379648	3.115265	468	-2.73	-3.02	-12.2	-18.33
937	241.93	469	6.053977	6.330724	3.084112	469	-2.74	-3.02	-12.2	-18.33
939	241.93	470	6.011364	6.389432	3.05296	470	-2.74	-3.02	-12.2	-18.33
941	241.93	471	6.011364	6.399217	3.037383	471	-2.74	-3.02	-12.2	-18.33
943	241.93	472	6.011364	6.369863	3.05296	472	-2.74	-3.02	-12.2	-18.34
945	241.94	473	6.068182	6.389432	3.084112	473	-2.74	-3.02	-12.2	-18.33
947	241.94	474	6.082386	6.389432	3.146417	474	-2.74	-3.02	-12.2	-18.33
949	241.93	475	6.011364	6.389432	3.099688	475	-2.73	-3.01	-12.2	-18.33
951	241.93	476	6.039773	6.369863	3.05296	476	-2.74	-3.02	-12.2	-18.33
953	241.94	477	6.039773	6.360078	3.068536	477	-2.73	-3.01	-12.2	-18.33
955	241.93	478	6.025568	6.350294	3.05296	478	-2.73	-3.01	-12.2	-18.33
957	241.93	479	6.025568	6.379648	3.099688	479	-2.74	-3.01	-12.2	-18.33
959	241.93	480	5.982955	6.389432	3.099688	480	-2.73	-3.01	-12.19	-18.32
961	241.93	481	5.982955	6.389432	3.099688	481	-2.74	-3.01	-12.19	-18.32
963	241.93	482	6.025568	6.409002	3.084112	482	-2.74	-3.01	-12.2	-18.32
965	241.93	483	6.068182	6.379648	3.05296	483	-2.74	-3.01	-12.19	-18.32
967	241.93	484	6.082386	6.320939	3.099688	484	-2.73	-3	-12.19	-18.32
969	241.94	485	6.082386	6.350294	3.084112	485	-2.73	-2.99	-12.18	-18.31
971	241.93	486	6.082386	6.360078	3.084112	486	-2.73	-2.99	-12.18	-18.31
973	241.94	487	6.053977	6.340509	3.084112	487	-2.73	-3	-12.19	-18.32
975	241.93	488	6.025568	6.379648	3.037383	488	-2.73	-2.99	-12.19	-18.32
977	241.94	489	5.997159	6.360078	3.068536	489	-2.74	-3	-12.2	-18.33
979	241.94	490	6.025568	6.360078	3.084112	490	-2.74	-3	-12.2	-18.33
981	241.93	491	6.025568	6.350294	3.068536	491	-2.73	-2.99	-12.19	-18.33
983	241.94	492	5.96875	6.360078	3.05296	492	-2.72	-2.99	-12.19	-18.32
985	241.93	493	5.997159	6.379648	3.068536	493	-2.72	-2.98	-12.18	-18.32
987	241.94	494	6.025568	6.399217	3.099688	494	-2.72	-2.98	-12.18	-18.32
989	241.93	495	6.039773	6.369863	3.084112	495	-2.72	-2.98	-12.18	-18.31
991	241.94	496	6.053977	6.360078	3.05296	496	-2.72	-2.98	-12.18	-18.31
993	241.93	497	6.025568	6.360078	3.068536	497	-2.72	-2.97	-12.17	-18.3
995	241.94	498	6.053977	6.399217	3.05296	498	-2.72	-2.97	-12.18	-18.31
997	241.94	499	6.039773	6.379648	3.006231	499	-2.72	-2.98	-12.18	-18.31
999	241.94	500	6.025568	6.409002	3.05296	500	-2.73	-2.98	-12.19	-18.32
1001	241.94	501	6.039773	6.428571	3.099688	501	-2.73	-2.98	-12.19	-18.32
1003	241.94	502	6.053977	6.389432	3.146417	502	-2.73	-2.97	-12.18	-18.31
1005	241.93	503	6.053977	6.379648	3.084112	503	-2.72	-2.97	-12.18	-18.31
1007	241.94	504	6.025568	6.360078	3.037383	504	-2.73	-2.98	-12.19	-18.31
1009	241.94	505	5.997159	6.389432	3.068536	505	-2.73	-2.97	-12.18	-18.31
1011	241.94	506	6.039773	6.389432	3.05296	506	-2.72	-2.97	-12.18	-18.31
1013	241.94	507	6.068182	6.379648	3.068536	507	-2.72	-2.96	-12.18	-18.3
1015	241.94	508	6.053977	6.330724	3.068536	508	-2.72	-2.97	-12.18	-18.31
1017	241.94	509	6.082386	6.360078	3.099688	509	-2.73	-2.97	-12.18	-18.31
1019	241.94	510	6.053977	6.369863	3.099688	510	-2.72	-2.96	-12.18	-18.3
1021	241.94	511	6.011364	6.369863	3.084112	511	-2.72	-2.96	-12.17	-18.3
1023	241.94	512	6.011364	6.409002	3.084112	512	-2.72	-2.96	-12.17	-18.3

1025	241.93	513	6.011364	6.399217	3.037383	513	-2.71	-2.95	-12.16	-18.29
1027	241.94	514	6.011364	6.409002	3.006231	514	-2.71	-2.95	-12.17	-18.29
1029	241.94	515	6.053977	6.418787	3.006231	515	-2.72	-2.95	-12.17	-18.29
1031	241.94	516	6.082386	6.360078	3.099688	516	-2.71	-2.95	-12.16	-18.29
1033	241.93	517	6.082386	6.320939	3.130841	517	-2.71	-2.95	-12.16	-18.29
1035	241.94	518	6.068182	6.369863	3.084112	518	-2.71	-2.95	-12.16	-18.29
1037	241.94	519	6.025568	6.350294	3.084112	519	-2.71	-2.94	-12.16	-18.29
1039	241.94	520	6.082386	6.340509	3.115265	520	-2.72	-2.95	-12.16	-18.29
1041	241.94	521	6.096591	6.360078	3.099688	521	-2.71	-2.95	-12.16	-18.29
1043	241.94	522	6.068182	6.369863	3.068536	522	-2.72	-2.95	-12.17	-18.29
1045	241.94	523	6.053977	6.379648	3.068536	523	-2.72	-2.95	-12.17	-18.29
1047	241.94	524	6.096591	6.379648	3.084112	524	-2.72	-2.95	-12.17	-18.29
1049	241.94	525	6.053977	6.350294	3.068536	525	-2.72	-2.94	-12.16	-18.29
1051	241.94	526	6.053977	6.409002	3.021807	526	-2.71	-2.94	-12.16	-18.29
1053	241.94	527	6.053977	6.389432	3.084112	527	-2.71	-2.93	-12.16	-18.29
1055	241.94	528	6.110795	6.389432	3.115265	528	-2.7	-2.93	-12.16	-18.28
1057	241.94	529	6.082386	6.369863	3.130841	529	-2.71	-2.93	-12.16	-18.28
1059	241.94	530	6.039773	6.350294	3.115265	530	-2.7	-2.93	-12.16	-18.29
1061	241.94	531	6.053977	6.360078	3.115265	531	-2.7	-2.93	-12.16	-18.28
1063	241.94	532	6.096591	6.369863	3.099688	532	-2.7	-2.93	-12.16	-18.29
1065	241.94	533	6.125	6.350294	3.115265	533	-2.7	-2.92	-12.16	-18.28
1067	241.94	534	6.053977	6.409002	3.099688	534	-2.7	-2.92	-12.15	-18.28
1069	241.94	535	6.025568	6.428571	3.084112	535	-2.7	-2.92	-12.15	-18.28
1071	241.94	536	6.011364	6.399217	3.084112	536	-2.7	-2.92	-12.15	-18.28
1073	241.94	537	6.025568	6.369863	3.068536	537	-2.7	-2.92	-12.15	-18.28
1075	241.94	538	6.039773	6.350294	3.099688	538	-2.7	-2.91	-12.15	-18.28
1077	241.94	539	6.039773	6.360078	3.05296	539	-2.71	-2.93	-12.16	-18.29
1079	241.94	540	6.025568	6.389432	3.05296	540	-2.71	-2.92	-12.16	-18.29
1081	241.94	541	6.053977	6.350294	3.05296	541	-2.71	-2.92	-12.16	-18.29
1083	241.94	542	6.082386	6.350294	3.084112	542	-2.71	-2.92	-12.16	-18.28
1085	241.94	543	6.068182	6.350294	3.099688	543	-2.7	-2.92	-12.15	-18.28
1087	241.94	544	6.039773	6.330724	3.084112	544	-2.7	-2.92	-12.15	-18.28
1089	241.94	545	6.039773	6.350294	3.084112	545	-2.7	-2.92	-12.15	-18.28
1091	241.94	546	6.039773	6.350294	3.084112	546	-2.7	-2.91	-12.15	-18.28
1093	241.94	547	6.053977	6.369863	3.146417	547	-2.7	-2.91	-12.15	-18.28
1095	241.94	548	6.082386	6.340509	3.115265	548	-2.7	-2.91	-12.15	-18.28
1097	241.94	549	6.068182	6.389432	3.068536	549	-2.72	-2.92	-12.16	-18.29
1099	241.94	550	6.053977	6.457926	3.099688	550	-2.71	-2.92	-12.16	-18.28
1101	241.94	551	6.068182	6.428571	3.084112	551	-2.71	-2.92	-12.16	-18.28
1103	241.94	552	6.082386	6.399217	3.115265	552	-2.72	-2.92	-12.16	-18.28
1105	241.94	553	6.025568	6.379648	3.17757	553	-2.71	-2.91	-12.16	-18.28
1107	241.94	554	6.025568	6.340509	3.146417	554	-2.71	-2.91	-12.16	-18.28
1109	241.94	555	6.039773	6.369863	3.146417	555	-2.71	-2.91	-12.15	-18.27
1111	241.94	556	5.982955	6.399217	3.099688	556	-2.7	-2.9	-12.14	-18.26
1113	241.94	557	6.053977	6.330724	3.099688	557	-2.71	-2.9	-12.14	-18.26

1115	241.94	558	6.039773	6.311155	3.084112	558	-2.7	-2.9	-12.14	-18.26
1117	241.94	559	6.068182	6.389432	3.084112	559	-2.69	-2.89	-12.13	-18.25
1119	241.94	560	6.139205	6.379648	3.084112	560	-2.7	-2.89	-12.13	-18.25
1121	241.94	561	6.110795	6.399217	3.068536	561	-2.7	-2.89	-12.13	-18.26
1123	241.94	562	6.039773	6.369863	3.099688	562	-2.7	-2.9	-12.14	-18.26
1125	241.94	563	6.039773	6.409002	3.084112	563	-2.7	-2.89	-12.13	-18.26
1127	241.94	564	6.039773	6.438356	3.099688	564	-2.7	-2.89	-12.14	-18.26
1129	241.94	565	6.096591	6.399217	3.099688	565	-2.7	-2.89	-12.13	-18.26
1131	241.94	566	6.110795	6.350294	3.115265	566	-2.7	-2.89	-12.13	-18.26
1133	241.94	567	6.082386	6.389432	3.05296	567	-2.69	-2.88	-12.12	-18.25
1135	241.94	568	6.053977	6.409002	3.05296	568	-2.69	-2.88	-12.13	-18.26
1137	241.94	569	6.082386	6.379648	3.099688	569	-2.7	-2.89	-12.13	-18.26
1139	241.94	570	6.068182	6.340509	3.099688	570	-2.7	-2.89	-12.13	-18.26
1141	241.94	571	6.068182	6.389432	3.115265	571	-2.7	-2.89	-12.13	-18.26
1143	241.94	572	6.082386	6.438356	3.115265	572	-2.69	-2.88	-12.13	-18.25
1145	241.94	573	6.082386	6.389432	3.146417	573	-2.7	-2.88	-12.14	-18.26
1147	241.94	574	6.068182	6.379648	3.130841	574	-2.69	-2.88	-12.13	-18.26
1149	241.93	575	6.068182	6.360078	3.099688	575	-2.69	-2.87	-12.12	-18.25
1151	241.94	576	6.068182	6.389432	3.084112	576	-2.69	-2.87	-12.12	-18.25
1153	241.94	577	6.096591	6.399217	3.084112	577	-2.69	-2.87	-12.12	-18.25
1155	241.94	578	6.110795	6.389432	3.084112	578	-2.68	-2.86	-12.12	-18.25
1157	241.94	579	6.139205	6.360078	3.084112	579	-2.68	-2.87	-12.12	-18.25
1159	241.94	580	6.125	6.379648	3.099688	580	-2.68	-2.87	-12.12	-18.25
1161	241.94	581	6.110795	6.379648	3.068536	581	-2.68	-2.86	-12.12	-18.25
1163	241.94	582	6.110795	6.379648	3.099688	582	-2.69	-2.87	-12.13	-18.25
1165	241.94	583	6.039773	6.399217	3.099688	583	-2.69	-2.87	-12.12	-18.25
1167	241.94	584	5.997159	6.389432	3.130841	584	-2.69	-2.87	-12.12	-18.25
1169	241.94	585	6.025568	6.389432	3.161994	585	-2.69	-2.87	-12.12	-18.25
1171	241.94	586	6.068182	6.379648	3.146417	586	-2.69	-2.87	-12.12	-18.25
		587	6.110795	6.330724	3.115265	587	-2.68	-2.86	-12.11	-18.24
		588	6.082386	6.330724	3.130841	588	-2.69	-2.86	-12.12	-18.25
		589	6.096591	6.350294	3.099688	589	-2.69	-2.86	-12.12	-18.25
		590	6.096591	6.399217	3.115265	590	-2.69	-2.86	-12.11	-18.25
		591	6.068182	6.340509	3.099688	591	-2.68	-2.85	-12.11	-18.24
		592	6.053977	6.360078	3.130841	592	-2.69	-2.86	-12.12	-18.25
		593	6.025568	6.389432	3.161994	593	-2.69	-2.86	-12.12	-18.25
		594	6.011364	6.409002	3.130841	594	-2.69	-2.86	-12.12	-18.25
		595	6.039773	6.389432	3.115265	595	-2.69	-2.86	-12.12	-18.25
		596	6.096591	6.379648	3.068536	596	-2.69	-2.85	-12.12	-18.24
		597	6.110795	6.350294	3.037383	597	-2.68	-2.84	-12.11	-18.24
		598	6.125	6.389432	3.099688	598	-2.68	-2.84	-12.11	-18.24
		599	6.082386	6.409002	3.161994	599	-2.68	-2.85	-12.12	-18.24
		600	6.025568	6.360078	3.130841	600	-2.69	-2.85	-12.12	-18.25
		601	6.025568	6.330724	3.115265	601	-2.69	-2.85	-12.12	-18.25
		602	6.025568	6.379648	3.193146	602	-2.68	-2.85	-12.12	-18.24

603	6.025568	6.389432	3.161994	603	-2.69	-2.85	-12.12	-18.24
604	6.110795	6.369863	3.115265	604	-2.68	-2.85	-12.11	-18.24
605	6.096591	6.350294	3.115265	605	-2.68	-2.85	-12.12	-18.24
606	6.025568	6.379648	3.130841	606	-2.68	-2.85	-12.11	-18.24
607	6.053977	6.418787	3.146417	607	-2.69	-2.85	-12.12	-18.24
608	6.125	6.418787	3.130841	608	-2.69	-2.85	-12.12	-18.25
609	6.096591	6.418787	3.161994	609	-2.69	-2.86	-12.12	-18.25
610	6.068182	6.350294	3.161994	610	-2.68	-2.85	-12.11	-18.24
611	6.039773	6.330724	3.130841	611	-2.68	-2.84	-12.11	-18.24
612	6.025568	6.379648	3.115265	612	-2.68	-2.85	-12.12	-18.24
613	5.997159	6.379648	3.146417	613	-2.67	-2.84	-12.11	-18.24
614	6.011364	6.389432	3.193146	614	-2.67	-2.83	-12.1	-18.23
615	6.053977	6.399217	3.208723	615	-2.67	-2.83	-12.1	-18.23
616	6.082386	6.379648	3.146417	616	-2.66	-2.82	-12.09	-18.22
617	6.053977	6.389432	3.161994	617	-2.67	-2.83	-12.11	-18.24
618	6.082386	6.428571	3.161994	618	-2.66	-2.83	-12.1	-18.23
619	6.125	6.418787	3.146417	619	-2.67	-2.84	-12.1	-18.23
620	6.139205	6.418787	3.115265	620	-2.68	-2.84	-12.11	-18.24
621	6.139205	6.399217	3.130841	621	-2.67	-2.83	-12.1	-18.23
622	6.110795	6.399217	3.084112	622	-2.67	-2.83	-12.1	-18.23
623	6.053977	6.409002	3.130841	623	-2.67	-2.83	-12.1	-18.23
624	6.096591	6.409002	3.146417	624	-2.67	-2.83	-12.1	-18.23
625	6.110795	6.438356	3.115265	625	-2.68	-2.83	-12.1	-18.23
626	6.025568	6.418787	3.161994	626	-2.67	-2.83	-12.1	-18.23
627	6.011364	6.379648	3.161994	627	-2.67	-2.82	-12.1	-18.23
628	6.025568	6.399217	3.084112	628	-2.67	-2.82	-12.1	-18.22
629	6.053977	6.369863	3.099688	629	-2.68	-2.82	-12.1	-18.23
630	6.068182	6.360078	3.099688	630	-2.68	-2.83	-12.11	-18.23
631	6.068182	6.409002	3.146417	631	-2.67	-2.82	-12.11	-18.23
632	6.068182	6.428571	3.161994	632	-2.68	-2.83	-12.11	-18.23
633	6.096591	6.369863	3.146417	633	-2.68	-2.83	-12.1	-18.23
634	6.110795	6.350294	3.146417	634	-2.68	-2.83	-12.1	-18.23
635	6.053977	6.418787	3.099688	635	-2.68	-2.83	-12.1	-18.23
636	6.082386	6.428571	3.068536	636	-2.68	-2.82	-12.09	-18.23
637	6.082386	6.448141	3.099688	637	-2.67	-2.82	-12.09	-18.23
638	6.096591	6.46771	3.084112	638	-2.68	-2.82	-12.1	-18.23
639	6.110795	6.379648	3.115265	639	-2.67	-2.82	-12.1	-18.23
640	6.096591	6.389432	3.099688	640	-2.67	-2.81	-12.1	-18.23
641	6.068182	6.409002	3.115265	641	-2.67	-2.81	-12.1	-18.23
642	6.096591	6.399217	3.099688	642	-2.67	-2.82	-12.1	-18.23
643	6.082386	6.399217	3.084112	643	-2.68	-2.82	-12.1	-18.24
644	6.025568	6.379648	3.05296	644	-2.69	-2.83	-12.11	-18.24
645	6.068182	6.409002	3.068536	645	-2.68	-2.81	-12.1	-18.23
646	6.110795	6.399217	3.099688	646	-2.67	-2.81	-12.1	-18.23
647	6.082386	6.379648	3.099688	647	-2.68	-2.81	-12.1	-18.23

648	6.053977	6.399217	3.130841	648	-2.68	-2.82	-12.1	-18.23
649	6.068182	6.389432	3.099688	649	-2.68	-2.81	-12.1	-18.23
650	6.068182	6.399217	3.099688	650	-2.68	-2.81	-12.09	-18.23
651	6.110795	6.399217	3.130841	651	-2.68	-2.81	-12.1	-18.23
652	6.125	6.399217	3.130841	652	-2.67	-2.81	-12.09	-18.22
653	6.125	6.379648	3.146417	653	-2.67	-2.8	-12.09	-18.22
654	6.125	6.389432	3.146417	654	-2.67	-2.8	-12.09	-18.22
655	6.139205	6.389432	3.099688	655	-2.67	-2.8	-12.09	-18.22
656	6.082386	6.418787	3.130841	656	-2.66	-2.79	-12.08	-18.21
657	6.053977	6.438356	3.146417	657	-2.66	-2.79	-12.08	-18.21
658	6.082386	6.409002	3.115265	658	-2.66	-2.8	-12.08	-18.21
659	6.068182	6.379648	3.099688	659	-2.67	-2.8	-12.09	-18.22
660	6.139205	6.330724	3.130841	660	-2.67	-2.8	-12.09	-18.22
661	6.125	6.399217	3.130841	661	-2.67	-2.8	-12.09	-18.22
662	6.068182	6.409002	3.099688	662	-2.67	-2.8	-12.09	-18.22
663	6.053977	6.379648	3.146417	663	-2.67	-2.8	-12.09	-18.22
664	6.053977	6.389432	3.130841	664	-2.67	-2.8	-12.09	-18.22
665	6.039773	6.418787	3.130841	665	-2.66	-2.79	-12.08	-18.22
666	6.053977	6.399217	3.084112	666	-2.67	-2.8	-12.09	-18.22
667	6.082386	6.399217	3.084112	667	-2.67	-2.79	-12.08	-18.22
668	6.110795	6.340509	3.130841	668	-2.67	-2.8	-12.09	-18.22
669	6.082386	6.350294	3.130841	669	-2.67	-2.8	-12.09	-18.22
670	6.068182	6.399217	3.130841	670	-2.67	-2.79	-12.09	-18.22
671	6.068182	6.379648	3.130841	671	-2.67	-2.79	-12.09	-18.22
672	6.053977	6.389432	3.099688	672	-2.67	-2.79	-12.09	-18.22
673	6.039773	6.48728	3.099688	673	-2.66	-2.79	-12.09	-18.22
674	6.025568	6.399217	3.068536	674	-2.66	-2.79	-12.08	-18.22
675	6.068182	6.360078	3.099688	675	-2.66	-2.79	-12.09	-18.22
676	6.082386	6.418787	3.084112	676	-2.66	-2.79	-12.09	-18.22
677	6.082386	6.369863	3.05296	677	-2.66	-2.79	-12.08	-18.22
678	6.082386	6.389432	3.084112	678	-2.65	-2.78	-12.08	-18.21
679	6.096591	6.409002	3.130841	679	-2.66	-2.78	-12.08	-18.22
680	6.082386	6.389432	3.130841	680	-2.65	-2.78	-12.07	-18.21
681	6.082386	6.360078	3.146417	681	-2.65	-2.78	-12.07	-18.21
682	6.110795	6.379648	3.130841	682	-2.65	-2.77	-12.07	-18.21
683	6.110795	6.409002	3.115265	683	-2.64	-2.77	-12.07	-18.21
684	6.082386	6.389432	3.115265	684	-2.64	-2.77	-12.07	-18.21
685	6.082386	6.379648	3.099688	685	-2.65	-2.78	-12.07	-18.22
686	6.053977	6.399217	3.099688	686	-2.65	-2.78	-12.08	-18.22
687	6.039773	6.389432	3.068536	687	-2.65	-2.78	-12.07	-18.21
688	6.082386	6.418787	3.115265	688	-2.65	-2.78	-12.08	-18.22
689	6.110795	6.418787	3.161994	689	-2.64	-2.78	-12.07	-18.21
690	6.139205	6.399217	3.193146	690	-2.65	-2.79	-12.07	-18.21
691	6.082386	6.340509	3.17757	691	-2.65	-2.78	-12.07	-18.21
692	6.082386	6.340509	3.115265	692	-2.65	-2.78	-12.08	-18.21

693	6.068182	6.340509	3.115265	693	-2.65	-2.78	-12.07	-18.21
694	6.068182	6.389432	3.099688	694	-2.65	-2.78	-12.07	-18.21
695	6.053977	6.369863	3.115265	695	-2.65	-2.78	-12.07	-18.21
696	6.082386	6.340509	3.146417	696	-2.65	-2.77	-12.07	-18.21
697	6.068182	6.379648	3.130841	697	-2.65	-2.77	-12.07	-18.2
698	6.082386	6.369863	3.099688	698	-2.65	-2.77	-12.07	-18.21
699	6.068182	6.350294	3.068536	699	-2.65	-2.78	-12.07	-18.21
700	6.039773	6.350294	3.130841	700	-2.65	-2.77	-12.07	-18.2
701	6.053977	6.389432	3.130841	701	-2.64	-2.76	-12.06	-18.2
702	6.053977	6.409002	3.099688	702	-2.64	-2.77	-12.06	-18.2
703	6.082386	6.389432	3.099688	703	-2.64	-2.77	-12.06	-18.2
704	6.082386	6.399217	3.130841	704	-2.65	-2.77	-12.07	-18.2
705	6.053977	6.379648	3.130841	705	-2.65	-2.77	-12.06	-18.2
706	6.039773	6.399217	3.130841	706	-2.65	-2.77	-12.06	-18.2
707	6.068182	6.409002	3.130841	707	-2.65	-2.77	-12.06	-18.2
708	6.053977	6.399217	3.084112	708	-2.64	-2.76	-12.06	-18.2
709	6.068182	6.389432	3.084112	709	-2.64	-2.76	-12.05	-18.19
710	6.125	6.409002	3.068536	710	-2.64	-2.76	-12.06	-18.19
711	6.096591	6.418787	3.115265	711	-2.64	-2.76	-12.06	-18.2
712	6.096591	6.438356	3.130841	712	-2.63	-2.76	-12.06	-18.19
713	6.082386	6.457926	3.130841	713	-2.62	-2.75	-12.05	-18.19
714	6.068182	6.46771	3.146417	714	-2.63	-2.75	-12.05	-18.19
715	6.096591	6.399217	3.161994	715	-2.63	-2.76	-12.06	-18.2
716	6.068182	6.360078	3.115265	716	-2.63	-2.76	-12.06	-18.2
717	6.110795	6.379648	3.115265	717	-2.63	-2.76	-12.06	-18.2
718	6.068182	6.389432	3.115265	718	-2.64	-2.76	-12.07	-18.2
719	6.053977	6.379648	3.130841	719	-2.64	-2.76	-12.06	-18.2
720	6.053977	6.360078	3.130841	720	-2.64	-2.76	-12.06	-18.2
721	6.011364	6.360078	3.099688	721	-2.64	-2.76	-12.06	-18.2
722	6.039773	6.360078	3.084112	722	-2.63	-2.75	-12.06	-18.2
723	6.053977	6.389432	3.130841	723	-2.64	-2.76	-12.06	-18.2
724	6.068182	6.438356	3.115265	724	-2.63	-2.76	-12.06	-18.2
725	6.096591	6.448141	3.146417	725	-2.64	-2.76	-12.07	-18.21
726	6.068182	6.418787	3.115265	726	-2.63	-2.76	-12.07	-18.2
727	6.082386	6.379648	3.084112	727	-2.63	-2.76	-12.07	-18.21
728	6.110795	6.428571	3.037383	728	-2.62	-2.75	-12.07	-18.2
729	6.125	6.379648	3.099688	729	-2.62	-2.76	-12.06	-18.2
730	6.110795	6.379648	3.130841	730	-2.62	-2.76	-12.06	-18.2
731	6.110795	6.409002	3.115265	731	-2.62	-2.76	-12.06	-18.2
732	6.082386	6.389432	3.146417	732	-2.62	-2.75	-12.06	-18.19
733	6.096591	6.379648	3.130841	733	-2.62	-2.75	-12.06	-18.19
734	6.139205	6.409002	3.130841	734	-2.62	-2.75	-12.06	-18.2
735	6.125	6.389432	3.115265	735	-2.62	-2.75	-12.06	-18.19
736	6.110795	6.379648	3.099688	736	-2.62	-2.75	-12.05	-18.19
737	6.053977	6.409002	3.099688	737	-2.63	-2.75	-12.06	-18.19

738	6.053977	6.399217	3.099688	738	-2.63	-2.75	-12.06	-18.19
739	6.082386	6.418787	3.068536	739	-2.63	-2.75	-12.06	-18.19
740	6.068182	6.428571	3.099688	740	-2.63	-2.75	-12.06	-18.2
741	6.025568	6.409002	3.146417	741	-2.63	-2.75	-12.06	-18.19
742	5.954545	6.369863	3.130841	742	-2.63	-2.75	-12.06	-18.2
743	6.011364	6.399217	3.05296	743	-2.62	-2.75	-12.05	-18.19
744	6.053977	6.399217	3.068536	744	-2.63	-2.75	-12.05	-18.19
745	6.053977	6.399217	3.037383	745	-2.62	-2.74	-12.06	-18.19
746	6.068182	6.389432	3.05296	746	-2.62	-2.74	-12.05	-18.19
747	6.068182	6.369863	3.084112	747	-2.62	-2.73	-12.04	-18.19
748	6.039773	6.350294	3.099688	748	-2.62	-2.74	-12.05	-18.19
749	6.068182	6.340509	3.068536	749	-2.62	-2.74	-12.05	-18.19
750	6.053977	6.30137	3.099688	750	-2.62	-2.73	-12.04	-18.18
751	6.025568	6.360078	3.084112	751	-2.61	-2.73	-12.04	-18.18
752	6.025568	6.418787	3.099688	752	-2.62	-2.73	-12.04	-18.19
753	6.039773	6.399217	3.161994	753	-2.61	-2.73	-12.04	-18.18
754	6.068182	6.369863	3.130841	754	-2.62	-2.73	-12.05	-18.19
755	6.082386	6.389432	3.068536	755	-2.61	-2.73	-12.04	-18.19
756	6.068182	6.389432	3.084112	756	-2.62	-2.73	-12.04	-18.18
757	6.039773	6.350294	3.068536	757	-2.61	-2.73	-12.04	-18.18
758	6.011364	6.369863	3.099688	758	-2.61	-2.72	-12.04	-18.18
759	6.039773	6.409002	3.130841	759	-2.61	-2.73	-12.04	-18.18
760	6.025568	6.379648	3.115265	760	-2.61	-2.73	-12.04	-18.18
761	6.025568	6.389432	3.130841	761	-2.62	-2.73	-12.04	-18.18
762	6.082386	6.399217	3.084112	762	-2.62	-2.73	-12.05	-18.19
763	6.082386	6.448141	3.099688	763	-2.62	-2.73	-12.05	-18.19
764	6.053977	6.428571	3.130841	764	-2.62	-2.73	-12.04	-18.19
765	6.053977	6.418787	3.099688	765	-2.61	-2.72	-12.04	-18.18
766	6.082386	6.389432	3.084112	766	-2.61	-2.72	-12.04	-18.18
767	6.053977	6.389432	3.084112	767	-2.61	-2.73	-12.04	-18.18
768	6.025568	6.350294	3.130841	768	-2.62	-2.73	-12.05	-18.19
769	6.025568	6.399217	3.084112	769	-2.62	-2.73	-12.04	-18.19
770	6.068182	6.389432	3.084112	770	-2.61	-2.72	-12.04	-18.18
771	6.082386	6.350294	3.05296	771	-2.61	-2.71	-12.03	-18.18
772	6.096591	6.369863	3.05296	772	-2.61	-2.71	-12.03	-18.18
773	6.096591	6.399217	3.068536	773	-2.61	-2.71	-12.03	-18.18
774	6.082386	6.369863	3.099688	774	-2.61	-2.72	-12.04	-18.19
775	6.011364	6.369863	3.099688	775	-2.61	-2.71	-12.03	-18.18
776	5.997159	6.360078	3.084112	776	-2.61	-2.71	-12.03	-18.18
777	6.025568	6.379648	3.146417	777	-2.61	-2.71	-12.03	-18.17
778	6.096591	6.369863	3.161994	778	-2.61	-2.71	-12.03	-18.17
779	6.096591	6.379648	3.161994	779	-2.61	-2.71	-12.03	-18.18
780	6.096591	6.360078	3.146417	780	-2.6	-2.71	-12.03	-18.17
781	6.068182	6.399217	3.084112	781	-2.6	-2.71	-12.03	-18.17
782	6.053977	6.428571	3.084112	782	-2.61	-2.71	-12.03	-18.17

783	6.053977	6.389432	3.037383	783	-2.61	-2.71	-12.04	-18.18
784	6.011364	6.369863	3.084112	784	-2.61	-2.71	-12.03	-18.18
785	6.011364	6.369863	3.099688	785	-2.61	-2.71	-12.03	-18.17
786	6.011364	6.360078	3.130841	786	-2.61	-2.71	-12.03	-18.17
787	6.011364	6.369863	3.130841	787	-2.62	-2.72	-12.04	-18.18
788	6.039773	6.369863	3.115265	788	-2.61	-2.71	-12.03	-18.17
789	6.068182	6.350294	3.084112	789	-2.62	-2.71	-12.04	-18.18
790	6.068182	6.360078	3.05296	790	-2.62	-2.72	-12.04	-18.18
791	6.039773	6.389432	3.068536	791	-2.62	-2.71	-12.03	-18.18
792	6.011364	6.389432	3.068536	792	-2.61	-2.71	-12.03	-18.17
793	6.039773	6.389432	3.084112	793	-2.62	-2.71	-12.03	-18.18
794	5.982955	6.379648	3.084112	794	-2.61	-2.71	-12.03	-18.17
795	5.982955	6.369863	3.115265	795	-2.61	-2.71	-12.03	-18.18
796	5.997159	6.369863	3.115265	796	-2.61	-2.7	-12.03	-18.17
797	6.011364	6.330724	3.084112	797	-2.61	-2.7	-12.03	-18.18
798	6.025568	6.340509	3.084112	798	-2.61	-2.71	-12.03	-18.18
799	6.025568	6.369863	3.084112	799	-2.62	-2.71	-12.03	-18.18
800	5.997159	6.399217	3.115265	800	-2.62	-2.71	-12.03	-18.18
801	6.025568	6.350294	3.084112	801	-2.61	-2.7	-12.03	-18.17
802	6.039773	6.350294	3.099688	802	-2.61	-2.71	-12.03	-18.17
803	6.053977	6.369863	3.130841	803	-2.62	-2.71	-12.04	-18.18
804	6.025568	6.389432	3.146417	804	-2.61	-2.71	-12.04	-18.18
805	5.997159	6.350294	3.161994	805	-2.61	-2.71	-12.04	-18.18
806	6.011364	6.379648	3.130841	806	-2.61	-2.71	-12.04	-18.18
807	6.025568	6.369863	3.099688	807	-2.61	-2.7	-12.03	-18.17
808	6.053977	6.360078	3.099688	808	-2.61	-2.71	-12.04	-18.18
809	5.997159	6.360078	3.115265	809	-2.61	-2.7	-12.03	-18.17
810	6.011364	6.340509	3.084112	810	-2.62	-2.71	-12.03	-18.17
811	6.011364	6.320939	3.115265	811	-2.61	-2.71	-12.04	-18.18
812	6.039773	6.369863	3.084112	812	-2.61	-2.7	-12.03	-18.18
813	6.011364	6.379648	3.037383	813	-2.62	-2.71	-12.04	-18.18
814	6.039773	6.418787	3.068536	814	-2.62	-2.71	-12.04	-18.18
815	6.068182	6.409002	3.068536	815	-2.61	-2.7	-12.03	-18.17
816	6.053977	6.389432	3.05296	816	-2.61	-2.7	-12.03	-18.17
817	6.039773	6.389432	3.068536	817	-2.61	-2.7	-12.03	-18.18
818	5.997159	6.389432	3.084112	818	-2.62	-2.7	-12.03	-18.18
819	6.025568	6.369863	3.068536	819	-2.62	-2.7	-12.03	-18.18
820	6.068182	6.389432	3.084112	820	-2.62	-2.7	-12.04	-18.18
821	6.068182	6.379648	3.115265	821	-2.62	-2.71	-12.04	-18.18
822	6.068182	6.379648	3.084112	822	-2.62	-2.7	-12.04	-18.17
823	6.039773	6.350294	3.099688	823	-2.62	-2.7	-12.04	-18.17
824	6.068182	6.360078	3.084112	824	-2.61	-2.7	-12.03	-18.17
825	6.039773	6.369863	3.084112	825	-2.62	-2.7	-12.03	-18.17
826	6.011364	6.399217	3.084112	826	-2.61	-2.7	-12.03	-18.17
827	6.011364	6.409002	3.084112	827	-2.61	-2.7	-12.03	-18.17

828	6.011364	6.379648	3.099688	828	-2.61	-2.7	-12.03	-18.17
829	6.053977	6.369863	3.084112	829	-2.61	-2.7	-12.03	-18.17
830	6.068182	6.379648	3.084112	830	-2.62	-2.7	-12.03	-18.17
831	6.053977	6.369863	3.099688	831	-2.62	-2.7	-12.04	-18.17
832	6.053977	6.389432	3.068536	832	-2.62	-2.7	-12.03	-18.17
833	6.082386	6.379648	3.05296	833	-2.62	-2.7	-12.03	-18.17
834	6.068182	6.379648	3.099688	834	-2.62	-2.7	-12.04	-18.18
835	6.053977	6.320939	3.146417	835	-2.61	-2.7	-12.03	-18.17
836	6.039773	6.311155	3.130841	836	-2.61	-2.69	-12.03	-18.17
837	6.025568	6.369863	3.068536	837	-2.61	-2.7	-12.04	-18.18
838	6.025568	6.399217	3.068536	838	-2.61	-2.7	-12.04	-18.18
839	5.997159	6.389432	3.05296	839	-2.61	-2.7	-12.04	-18.17
840	6.025568	6.350294	3.099688	840	-2.61	-2.7	-12.02	-18.15
841	6.025568	6.399217	3.084112	841	-2.6	-2.69	-12.01	-18.13
842	6.011364	6.418787	3.068536	842	-2.6	-2.69	-12.01	-18.13
843	6.025568	6.409002	3.068536	843	-2.6	-2.68	-12	-18.13
844	6.011364	6.379648	3.084112	844	-2.6	-2.68	-11.99	-18.11
845	6.025568	6.389432	3.084112	845	-2.59	-2.68	-11.98	-18.1
846	6.053977	6.418787	3.068536	846	-2.59	-2.68	-11.98	-18.1
847	6.082386	6.379648	3.115265	847	-2.58	-2.68	-11.97	-18.1
848	6.082386	6.330724	3.099688	848	-2.59	-2.68	-11.97	-18.1
849	6.053977	6.379648	3.115265	849	-2.58	-2.68	-11.97	-18.09
850	6.053977	6.389432	3.099688	850	-2.58	-2.68	-11.97	-18.09
851	6.068182	6.350294	3.115265	851	-2.58	-2.68	-11.97	-18.1
852	6.082386	6.311155	3.146417	852	-2.58	-2.67	-11.96	-18.09
853	6.096591	6.320939	3.084112	853	-2.58	-2.67	-11.96	-18.08
854	6.053977	6.350294	3.05296	854	-2.58	-2.68	-11.96	-18.09
855	6.068182	6.360078	3.084112	855	-2.58	-2.68	-11.96	-18.1
856	6.025568	6.369863	3.068536	856	-2.58	-2.68	-11.96	-18.1
857	6.011364	6.369863	3.084112	857	-2.59	-2.68	-11.96	-18.09
858	6.039773	6.369863	3.05296	858	-2.59	-2.68	-11.96	-18.09
859	6.068182	6.369863	3.084112	859	-2.59	-2.68	-11.96	-18.1
860	6.068182	6.379648	3.115265	860	-2.59	-2.68	-11.96	-18.09
861	6.068182	6.360078	3.130841	861	-2.58	-2.68	-11.95	-18.08
862	6.082386	6.360078	3.115265	862	-2.58	-2.68	-11.95	-18.08
863	6.053977	6.340509	3.099688	863	-2.58	-2.67	-11.95	-18.09
864	6.039773	6.330724	3.099688	864	-2.57	-2.67	-11.95	-18.08
865	6.039773	6.340509	3.084112	865	-2.57	-2.67	-11.95	-18.08
866	6.068182	6.350294	3.099688	866	-2.57	-2.67	-11.95	-18.08
867	6.082386	6.389432	3.115265	867	-2.55	-2.67	-11.95	-18.08
868	6.110795	6.409002	3.099688	868	-2.55	-2.66	-11.94	-18.08
869	6.096591	6.369863	3.068536	869	-2.55	-2.66	-11.93	-18.07
870	6.025568	6.350294	3.099688	870	-2.55	-2.66	-11.93	-18.06
871	6.011364	6.350294	3.084112	871	-2.55	-2.66	-11.93	-18.07
872	6.011364	6.379648	3.068536	872	-2.56	-2.66	-11.94	-18.08

873	6.011364	6.399217	3.099688	873	-2.56	-2.67	-11.95	-18.09
874	6.025568	6.369863	3.130841	874	-2.56	-2.67	-11.96	-18.11
875	5.997159	6.350294	3.099688	875	-2.56	-2.67	-11.96	-18.11
876	6.025568	6.330724	3.05296	876	-2.56	-2.66	-11.96	-18.12
877	6.068182	6.379648	3.021807	877	-2.55	-2.66	-11.96	-18.12
878	6.025568	6.360078	2.990654	878	-2.55	-2.65	-11.96	-18.11
879	6.011364	6.369863	3.006231	879	-2.56	-2.66	-11.97	-18.13
880	5.954545	6.350294	3.037383	880	-2.56	-2.66	-11.98	-18.13
881	5.982955	6.340509	3.05296	881	-2.56	-2.66	-11.98	-18.14
882	5.997159	6.330724	3.05296	882	-2.56	-2.66	-11.98	-18.14
883	5.954545	6.311155	3.05296	883	-2.56	-2.65	-11.98	-18.14
884	5.982955	6.320939	3.021807	884	-2.57	-2.67	-12	-18.15
885	5.997159	6.360078	3.068536	885	-2.57	-2.66	-11.99	-18.15
886	5.982955	6.340509	3.084112	886	-2.58	-2.67	-12	-18.15
887	6.011364	6.369863	3.099688	887	-2.57	-2.66	-11.99	-18.14
888	5.997159	6.399217	3.099688	888	-2.58	-2.67	-11.99	-18.13
889	5.982955	6.369863	3.084112	889	-2.58	-2.66	-11.99	-18.12
890	6.011364	6.399217	3.068536	890	-2.58	-2.66	-11.98	-18.12
891	6.011364	6.360078	3.099688	891	-2.58	-2.66	-11.98	-18.11
892	6.025568	6.369863	3.05296	892	-2.57	-2.65	-11.97	-18.1
893	6.039773	6.389432	3.05296	893	-2.58	-2.66	-11.97	-18.1
894	6.025568	6.389432	3.05296	894	-2.57	-2.66	-11.97	-18.1
895	6.039773	6.360078	3.068536	895	-2.57	-2.65	-11.97	-18.1
896	6.025568	6.330724	3.068536	896	-2.57	-2.65	-11.96	-18.09
897	6.053977	6.360078	3.084112	897	-2.57	-2.65	-11.96	-18.09
898	6.039773	6.399217	3.084112	898	-2.56	-2.64	-11.95	-18.08
899	6.053977	6.389432	3.115265	899	-2.56	-2.65	-11.96	-18.09
900	6.025568	6.350294	3.146417	900	-2.56	-2.65	-11.96	-18.1
901	5.997159	6.360078	3.115265	901	-2.57	-2.65	-11.97	-18.12
902	5.96875	6.409002	3.068536	902	-2.57	-2.65	-11.97	-18.12
903	5.96875	6.389432	3.05296	903	-2.57	-2.65	-11.98	-18.13
904	5.954545	6.340509	3.084112	904	-2.57	-2.65	-11.98	-18.14
905	5.954545	6.360078	3.068536	905	-2.57	-2.65	-11.98	-18.13
906	5.982955	6.399217	3.084112	906	-2.57	-2.65	-11.98	-18.12
907	6.011364	6.389432	3.084112	907	-2.58	-2.66	-11.98	-18.11
908	5.997159	6.379648	3.068536	908	-2.58	-2.66	-11.98	-18.12
909	6.011364	6.350294	3.068536	909	-2.58	-2.66	-11.98	-18.11
910	6.011364	6.340509	3.099688	910	-2.58	-2.65	-11.96	-18.1
911	6.025568	6.340509	3.115265	911	-2.57	-2.65	-11.96	-18.09
912	6.025568	6.340509	3.146417	912	-2.57	-2.65	-11.96	-18.09
913	6.025568	6.369863	3.130841	913	-2.57	-2.65	-11.95	-18.08
914	6.025568	6.409002	3.099688	914	-2.58	-2.65	-11.95	-18.08
915	6.025568	6.418787	3.115265	915	-2.57	-2.65	-11.95	-18.08
916	6.068182	6.399217	3.099688	916	-2.57	-2.65	-11.95	-18.08
917	6.039773	6.350294	3.099688	917	-2.57	-2.65	-11.95	-18.09

918	5.997159	6.340509	3.099688	918	-2.57	-2.65	-11.95	-18.09
919	5.982955	6.369863	3.084112	919	-2.57	-2.65	-11.95	-18.1
920	5.96875	6.399217	3.05296	920	-2.57	-2.65	-11.96	-18.1
921	5.982955	6.409002	3.05296	921	-2.57	-2.65	-11.95	-18.09
922	6.025568	6.409002	3.099688	922	-2.57	-2.64	-11.95	-18.09
923	6.068182	6.379648	3.099688	923	-2.57	-2.65	-11.96	-18.1
924	5.982955	6.360078	3.068536	924	-2.57	-2.64	-11.94	-18.08
925	5.96875	6.360078	3.084112	925	-2.57	-2.64	-11.94	-18.08
926	5.997159	6.350294	3.084112	926	-2.58	-2.65	-11.95	-18.08
927	5.982955	6.340509	3.099688	927	-2.58	-2.65	-11.95	-18.09
928	5.954545	6.360078	3.05296	928	-2.58	-2.65	-11.95	-18.08
929	5.997159	6.369863	3.037383	929	-2.58	-2.65	-11.94	-18.07
930	6.025568	6.350294	3.05296	930	-2.58	-2.64	-11.94	-18.07
931	5.96875	6.320939	3.084112	931	-2.57	-2.63	-11.93	-18.06
932	5.982955	6.340509	3.099688	932	-2.58	-2.64	-11.93	-18.06
933	5.982955	6.320939	3.05296	933	-2.57	-2.64	-11.93	-18.05
934	5.982955	6.350294	3.099688	934	-2.58	-2.64	-11.94	-18.06
935	5.997159	6.389432	3.130841	935	-2.58	-2.65	-11.94	-18.06
936	6.053977	6.379648	3.099688	936	-2.58	-2.64	-11.93	-18.05
937	6.068182	6.369863	3.068536	937	-2.58	-2.65	-11.93	-18.06
938	6.082386	6.350294	3.05296	938	-2.58	-2.64	-11.93	-18.07
939	6.068182	6.369863	3.037383	939	-2.58	-2.64	-11.93	-18.06
940	6.096591	6.379648	3.021807	940	-2.57	-2.64	-11.92	-18.05
941	6.039773	6.360078	3.05296	941	-2.56	-2.63	-11.91	-18.05
942	5.982955	6.360078	3.068536	942	-2.56	-2.63	-11.92	-18.06
943	5.96875	6.340509	3.099688	943	-2.56	-2.63	-11.92	-18.06
944	6.011364	6.360078	3.099688	944	-2.56	-2.63	-11.91	-18.04
945	6.025568	6.418787	3.146417	945	-2.56	-2.62	-11.91	-18.04
946	6.011364	6.448141	3.099688	946	-2.56	-2.62	-11.91	-18.05
947	6.025568	6.399217	3.084112	947	-2.56	-2.63	-11.92	-18.07
948	5.982955	6.350294	3.084112	948	-2.56	-2.63	-11.93	-18.08
949	6.025568	6.320939	3.068536	949	-2.56	-2.63	-11.94	-18.09
950	5.997159	6.330724	3.05296	950	-2.56	-2.63	-11.94	-18.1
951	5.96875	6.330724	3.05296	951	-2.56	-2.62	-11.94	-18.1
952	5.997159	6.350294	3.099688	952	-2.56	-2.62	-11.95	-18.11
953	5.96875	6.340509	3.068536	953	-2.57	-2.63	-11.96	-18.12
954	5.96875	6.350294	3.068536	954	-2.57	-2.63	-11.96	-18.13
955	5.926136	6.340509	3.068536	955	-2.57	-2.62	-11.96	-18.13
956	5.954545	6.340509	3.037383	956	-2.57	-2.62	-11.97	-18.14
957	5.997159	6.330724	3.021807	957	-2.57	-2.63	-11.98	-18.14
958	5.997159	6.340509	3.068536	958	-2.58	-2.63	-11.98	-18.14
959	5.954545	6.389432	3.006231	959	-2.58	-2.62	-11.97	-18.12
960	5.96875	6.389432	2.959502	960	-2.57	-2.62	-11.96	-18.11
961	5.982955	6.409002	3.037383	961	-2.57	-2.62	-11.96	-18.1
962	5.954545	6.409002	3.099688	962	-2.58	-2.62	-11.96	-18.1

963	5.940341	6.360078	3.084112	963	-2.58	-2.62	-11.95	-18.09
964	5.940341	6.350294	3.068536	964	-2.58	-2.62	-11.95	-18.09
965	5.940341	6.360078	3.05296	965	-2.58	-2.62	-11.96	-18.09
966	5.982955	6.379648	3.037383	966	-2.58	-2.62	-11.95	-18.08
967	5.982955	6.369863	3.021807	967	-2.58	-2.62	-11.95	-18.08
968	5.954545	6.379648	3.006231	968	-2.58	-2.63	-11.96	-18.09
969	5.940341	6.369863	3.021807	969	-2.58	-2.62	-11.95	-18.09
970	5.940341	6.389432	3.006231	970	-2.58	-2.63	-11.95	-18.08
971	5.954545	6.379648	3.006231	971	-2.58	-2.63	-11.95	-18.08
972	5.96875	6.399217	3.021807	972	-2.59	-2.63	-11.95	-18.09
973	5.954545	6.399217	3.037383	973	-2.58	-2.63	-11.95	-18.09
974	5.997159	6.360078	3.021807	974	-2.58	-2.62	-11.95	-18.08
975	5.940341	6.369863	3.037383	975	-2.57	-2.62	-11.94	-18.07
976	5.911932	6.360078	3.068536	976	-2.58	-2.62	-11.95	-18.08
977	5.982955	6.379648	3.084112	977	-2.58	-2.62	-11.95	-18.09
978	5.997159	6.379648	3.05296	978	-2.58	-2.62	-11.95	-18.1
979	6.011364	6.350294	3.068536	979	-2.58	-2.62	-11.95	-18.09
980	5.96875	6.389432	3.021807	980	-2.58	-2.62	-11.96	-18.1
981	5.96875	6.350294	3.05296	981	-2.58	-2.62	-11.97	-18.11
982	5.96875	6.330724	2.990654	982	-2.58	-2.62	-11.97	-18.11
983	5.940341	6.340509	2.990654	983	-2.58	-2.62	-11.97	-18.12
984	5.982955	6.369863	3.037383	984	-2.59	-2.63	-11.98	-18.12
985	5.982955	6.369863	3.037383	985	-2.59	-2.62	-11.97	-18.1
986	5.911932	6.350294	3.006231	986	-2.59	-2.62	-11.97	-18.09
987	5.911932	6.330724	3.021807	987	-2.59	-2.62	-11.97	-18.09
988	5.982955	6.360078	3.037383	988	-2.59	-2.62	-11.96	-18.08
989	5.982955	6.350294	3.006231	989	-2.58	-2.61	-11.95	-18.07
990	5.982955	6.320939	3.006231	990	-2.58	-2.61	-11.95	-18.07
991	5.997159	6.379648	3.006231	991	-2.59	-2.61	-11.95	-18.08
992	5.982955	6.350294	3.021807	992	-2.59	-2.62	-11.94	-18.09
993	5.911932	6.311155	3.05296	993	-2.59	-2.62	-11.93	-18.08
994	5.940341	6.320939	3.068536	994	-2.58	-2.61	-11.92	-18.07
995	5.954545	6.369863	3.037383	995	-2.59	-2.61	-11.93	-18.08
996	5.883523	6.369863	3.021807	996	-2.59	-2.62	-11.93	-18.09
997	5.883523	6.340509	3.037383	997	-2.59	-2.62	-11.93	-18.08
998	5.940341	6.330724	2.990654	998	-2.59	-2.62	-11.93	-18.07
999	5.997159	6.369863	2.990654	999	-2.59	-2.62	-11.93	-18.08
1000	5.926136	6.350294	2.975078	1000	-2.6	-2.63	-11.94	-18.1
1001	5.883523	6.330724	2.928349	1001	-2.6	-2.62	-11.94	-18.1
1002	5.897727	6.330724	2.975078	1002	-2.59	-2.62	-11.95	-18.11
1003	5.897727	6.360078	2.975078	1003	-2.59	-2.62	-11.95	-18.11
1004	5.883523	6.350294	3.006231	1004	-2.59	-2.61	-11.95	-18.12
1005	5.911932	6.360078	3.006231	1005	-2.6	-2.62	-11.96	-18.13
1006	5.926136	6.369863	3.021807	1006	-2.6	-2.62	-11.97	-18.13
1007	5.940341	6.350294	2.990654	1007	-2.6	-2.62	-11.97	-18.13

1008	5.911932	6.389432	3.021807	1008	-2.6	-2.62	-11.98	-18.14
1009	5.940341	6.369863	3.006231	1009	-2.6	-2.62	-11.98	-18.13
1010	5.982955	6.360078	3.021807	1010	-2.6	-2.62	-11.98	-18.14
1011	5.954545	6.379648	3.021807	1011	-2.6	-2.62	-11.98	-18.14
1012	5.982955	6.350294	2.975078	1012	-2.6	-2.62	-11.98	-18.14
1013	5.982955	6.320939	3.006231	1013	-2.61	-2.62	-11.99	-18.14
1014	5.940341	6.330724	3.006231	1014	-2.61	-2.62	-11.99	-18.14
1015	5.911932	6.340509	2.990654	1015	-2.61	-2.62	-11.99	-18.13
1016	5.940341	6.320939	3.006231	1016	-2.61	-2.62	-11.99	-18.14
1017	5.926136	6.30137	3.037383	1017	-2.62	-2.62	-11.99	-18.14
1018	5.897727	6.330724	3.05296	1018	-2.61	-2.62	-11.98	-18.12
1019	5.911932	6.340509	3.021807	1019	-2.6	-2.61	-11.97	-18.1
1020	5.940341	6.360078	2.975078	1020	-2.6	-2.61	-11.97	-18.1
1021	5.911932	6.379648	3.021807	1021	-2.6	-2.61	-11.96	-18.09
1022	5.96875	6.379648	3.021807	1022	-2.6	-2.61	-11.96	-18.1
1023	5.954545	6.360078	3.037383	1023	-2.6	-2.61	-11.97	-18.11
1024	5.926136	6.360078	3.05296	1024	-2.61	-2.62	-11.97	-18.11
1025	5.911932	6.350294	3.021807	1025	-2.61	-2.61	-11.96	-18.1
1026	5.954545	6.340509	2.975078	1026	-2.61	-2.61	-11.96	-18.09
1027	5.940341	6.340509	2.990654	1027	-2.61	-2.61	-11.96	-18.09
1028	5.911932	6.360078	3.05296	1028	-2.61	-2.61	-11.96	-18.1
1029	5.883523	6.360078	3.05296	1029	-2.61	-2.61	-11.97	-18.11
1030	5.897727	6.311155	3.006231	1030	-2.61	-2.62	-11.97	-18.11
1031	5.940341	6.2818	3.006231	1031	-2.61	-2.62	-11.97	-18.1
1032	5.982955	6.340509	3.021807	1032	-2.61	-2.62	-11.96	-18.09
1033	5.96875	6.350294	3.006231	1033	-2.61	-2.62	-11.97	-18.1
1034	5.954545	6.350294	2.990654	1034	-2.61	-2.62	-11.97	-18.11
1035	5.883523	6.311155	2.990654	1035	-2.61	-2.62	-11.98	-18.12
1036	5.926136	6.330724	2.975078	1036	-2.61	-2.62	-11.98	-18.12
1037	5.940341	6.379648	2.990654	1037	-2.61	-2.62	-11.98	-18.12
1038	5.926136	6.369863	3.05296	1038	-2.61	-2.62	-11.98	-18.13
1039	5.926136	6.340509	3.006231	1039	-2.6	-2.62	-11.98	-18.13
1040	5.926136	6.350294	3.021807	1040	-2.61	-2.62	-11.99	-18.13
1041	5.911932	6.360078	3.037383	1041	-2.61	-2.62	-11.99	-18.14
1042	5.883523	6.340509	2.990654	1042	-2.61	-2.62	-11.98	-18.13
1043	5.897727	6.330724	2.943925	1043	-2.61	-2.62	-11.98	-18.11
1044	5.940341	6.311155	3.006231	1044	-2.62	-2.62	-11.98	-18.1
1045	5.954545	6.320939	3.037383	1045	-2.61	-2.62	-11.97	-18.1
1046	5.954545	6.350294	3.037383	1046	-2.61	-2.62	-11.96	-18.08
1047	5.96875	6.330724	3.037383	1047	-2.61	-2.62	-11.96	-18.08
1048	5.96875	6.320939	3.006231	1048	-2.61	-2.61	-11.96	-18.08
1049	5.997159	6.340509	3.021807	1049	-2.61	-2.61	-11.96	-18.09
1050	6.011364	6.340509	2.990654	1050	-2.61	-2.62	-11.96	-18.09
1051	6.011364	6.379648	2.990654	1051	-2.62	-2.62	-11.96	-18.09
1052	6.011364	6.399217	2.990654	1052	-2.62	-2.62	-11.96	-18.09

1053	5.96875	6.360078	2.990654	1053	-2.62	-2.62	-11.96	-18.1
1054	5.926136	6.350294	3.021807	1054	-2.62	-2.62	-11.96	-18.1
1055	5.954545	6.291585	3.021807	1055	-2.62	-2.62	-11.96	-18.09
1056	5.997159	6.320939	2.975078	1056	-2.61	-2.62	-11.95	-18.08
1057	5.997159	6.350294	2.990654	1057	-2.61	-2.62	-11.95	-18.08
1058	5.96875	6.340509	2.975078	1058	-2.62	-2.62	-11.95	-18.07
1059	6.011364	6.30137	2.990654	1059	-2.62	-2.62	-11.95	-18.07
1060	5.997159	6.320939	3.037383	1060	-2.62	-2.62	-11.95	-18.08
1061	6.011364	6.350294	3.021807	1061	-2.62	-2.62	-11.95	-18.08
1062	6.039773	6.389432	3.05296	1062	-2.61	-2.62	-11.95	-18.07
1063	5.997159	6.360078	3.037383	1063	-2.61	-2.62	-11.95	-18.08
1064	5.982955	6.330724	3.084112	1064	-2.61	-2.62	-11.95	-18.08
1065	5.997159	6.369863	3.037383	1065	-2.6	-2.61	-11.94	-18.06
1066	5.940341	6.409002	3.037383	1066	-2.6	-2.61	-11.93	-18.06
1067	5.96875	6.379648	3.021807	1067	-2.6	-2.61	-11.94	-18.07
1068	5.954545	6.360078	3.021807	1068	-2.6	-2.61	-11.94	-18.07
1069	5.954545	6.360078	3.006231	1069	-2.61	-2.61	-11.94	-18.07
1070	6.011364	6.330724	2.990654	1070	-2.6	-2.61	-11.94	-18.07
1071	6.025568	6.369863	3.006231	1071	-2.59	-2.6	-11.92	-18.06
1072	6.053977	6.330724	3.021807	1072	-2.59	-2.6	-11.92	-18.05
1073	6.039773	6.340509	2.975078	1073	-2.6	-2.6	-11.93	-18.06
1074	5.982955	6.379648	3.006231	1074	-2.6	-2.6	-11.93	-18.07
1075	5.940341	6.379648	2.990654	1075	-2.6	-2.6	-11.93	-18.07
1076	5.982955	6.360078	3.006231	1076	-2.6	-2.6	-11.93	-18.06
1077	5.997159	6.340509	2.975078	1077	-2.6	-2.61	-11.93	-18.07
1078	5.982955	6.320939	3.006231	1078	-2.59	-2.6	-11.93	-18.06
1079	5.96875	6.369863	3.006231	1079	-2.6	-2.6	-11.93	-18.06
1080	5.96875	6.360078	3.068536	1080	-2.6	-2.6	-11.93	-18.07
1081	5.96875	6.379648	3.037383	1081	-2.6	-2.6	-11.94	-18.08
1082	5.96875	6.350294	3.006231	1082	-2.6	-2.61	-11.95	-18.09
1083	5.926136	6.340509	3.05296	1083	-2.6	-2.6	-11.94	-18.08
1084	5.911932	6.360078	3.05296	1084	-2.6	-2.6	-11.94	-18.08
1085	5.940341	6.389432	3.084112	1085	-2.6	-2.6	-11.94	-18.08
1086	5.940341	6.379648	3.037383	1086	-2.6	-2.6	-11.94	-18.07
1087	5.954545	6.350294	3.006231	1087	-2.61	-2.6	-11.94	-18.07
1088	5.911932	6.350294	3.006231	1088	-2.6	-2.6	-11.94	-18.07
1089	5.926136	6.360078	3.068536	1089	-2.61	-2.61	-11.94	-18.09
1090	5.940341	6.389432	3.05296	1090	-2.61	-2.61	-11.94	-18.08
1091	5.940341	6.369863	3.021807	1091	-2.61	-2.61	-11.94	-18.08
1092	5.954545	6.330724	3.037383	1092	-2.61	-2.61	-11.95	-18.08
1093	5.926136	6.320939	3.006231	1093	-2.61	-2.61	-11.95	-18.09
1094	5.940341	6.360078	3.006231	1094	-2.6	-2.6	-11.94	-18.08
1095	5.940341	6.379648	2.990654	1095	-2.6	-2.59	-11.93	-18.06
1096	5.954545	6.369863	3.021807	1096	-2.6	-2.6	-11.94	-18.07
1097	5.954545	6.330724	3.05296	1097	-2.61	-2.61	-11.95	-18.08

1098	5.96875	6.350294	3.037383	1098	-2.6	-2.6	-11.93	-18.07
1099	5.997159	6.340509	3.021807	1099	-2.61	-2.61	-11.94	-18.07
1100	5.954545	6.350294	3.05296	1100	-2.62	-2.62	-11.95	-18.08
1101	5.954545	6.369863	3.05296	1101	-2.61	-2.61	-11.94	-18.07
1102	5.954545	6.369863	3.021807	1102	-2.61	-2.61	-11.93	-18.06
1103	5.940341	6.340509	3.021807	1103	-2.61	-2.61	-11.94	-18.07
1104	5.926136	6.340509	3.021807	1104	-2.61	-2.61	-11.94	-18.08
1105	5.982955	6.360078	2.990654	1105	-2.61	-2.6	-11.94	-18.08
1106	5.96875	6.360078	3.021807	1106	-2.6	-2.6	-11.93	-18.06
1107	5.954545	6.360078	3.006231	1107	-2.6	-2.59	-11.93	-18.06
1108	5.940341	6.379648	3.006231	1108	-2.6	-2.6	-11.93	-18.06
1109	5.96875	6.399217	2.975078	1109	-2.6	-2.6	-11.93	-18.05
1110	5.96875	6.340509	2.990654	1110	-2.6	-2.59	-11.92	-18.05
1111	5.96875	6.360078	2.990654	1111	-2.6	-2.59	-11.93	-18.06
1112	5.997159	6.340509	3.006231	1112	-2.6	-2.59	-11.92	-18.06
1113	5.954545	6.330724	2.959502	1113	-2.6	-2.59	-11.92	-18.05
1114	5.982955	6.320939	2.990654	1114	-2.6	-2.59	-11.93	-18.06
1115	5.96875	6.340509	2.990654	1115	-2.61	-2.6	-11.94	-18.07
1116	5.96875	6.330724	3.021807	1116	-2.6	-2.59	-11.93	-18.07
1117	5.982955	6.340509	2.990654	1117	-2.61	-2.6	-11.93	-18.06
1118	5.96875	6.389432	2.975078	1118	-2.61	-2.6	-11.94	-18.07
1119	5.940341	6.360078	2.975078	1119	-2.61	-2.6	-11.95	-18.08
1120	5.940341	6.360078	3.021807	1120	-2.62	-2.61	-11.95	-18.08
1121	5.940341	6.360078	3.037383	1121	-2.62	-2.61	-11.94	-18.07
1122	5.926136	6.369863	3.021807	1122	-2.62	-2.6	-11.94	-18.06
1123	5.926136	6.360078	2.990654	1123	-2.63	-2.61	-11.95	-18.07
1124	5.997159	6.350294	2.975078	1124	-2.63	-2.61	-11.95	-18.08
1125	5.982955	6.369863	3.006231	1125	-2.63	-2.61	-11.95	-18.08
1126	5.954545	6.389432	3.006231	1126	-2.63	-2.61	-11.95	-18.07
1127	5.96875	6.379648	2.975078	1127	-2.62	-2.6	-11.94	-18.07
1128	5.940341	6.379648	2.990654	1128	-2.62	-2.6	-11.95	-18.07
1129	5.911932	6.360078	2.975078	1129	-2.61	-2.6	-11.94	-18.07
1130	5.926136	6.350294	2.943925	1130	-2.61	-2.6	-11.94	-18.06
1131	5.954545	6.30137	2.975078	1131	-2.61	-2.6	-11.94	-18.06
1132	5.954545	6.350294	2.990654	1132	-2.61	-2.6	-11.94	-18.07
1133	5.96875	6.360078	2.990654	1133	-2.6	-2.59	-11.94	-18.07
1134	5.954545	6.379648	2.975078	1134	-2.6	-2.59	-11.94	-18.08
1135	5.926136	6.379648	2.990654	1135	-2.61	-2.6	-11.95	-18.09
1136	5.940341	6.399217	3.037383	1136	-2.61	-2.59	-11.95	-18.1
1137	5.940341	6.360078	3.021807	1137	-2.61	-2.6	-11.95	-18.1
1138	5.954545	6.330724	3.037383	1138	-2.61	-2.6	-11.95	-18.09
1139	5.940341	6.30137	3.021807	1139	-2.62	-2.6	-11.96	-18.09
1140	5.926136	6.311155	3.021807	1140	-2.62	-2.6	-11.95	-18.09
1141	5.96875	6.350294	2.975078	1141	-2.61	-2.59	-11.95	-18.09
1142	5.96875	6.330724	3.006231	1142	-2.62	-2.6	-11.96	-18.1

1143	5.96875	6.350294	2.975078	1143	-2.61	-2.59	-11.96	-18.1
1144	5.940341	6.350294	2.959502	1144	-2.61	-2.59	-11.96	-18.1
1145	5.926136	6.330724	2.990654	1145	-2.61	-2.59	-11.96	-18.11
1146	5.96875	6.350294	2.990654	1146	-2.6	-2.58	-11.95	-18.1
1147	5.96875	6.330724	2.990654	1147	-2.61	-2.58	-11.95	-18.1
1148	5.982955	6.340509	2.959502	1148	-2.61	-2.58	-11.95	-18.09
1149	5.997159	6.379648	2.975078	1149	-2.61	-2.58	-11.96	-18.09
1150	5.96875	6.379648	2.959502	1150	-2.61	-2.58	-11.95	-18.08
1151	5.954545	6.350294	2.943925	1151	-2.62	-2.59	-11.96	-18.08
1152	5.940341	6.350294	2.975078	1152	-2.61	-2.59	-11.95	-18.08
1153	5.982955	6.389432	2.959502	1153	-2.61	-2.59	-11.95	-18.09
1154	5.96875	6.409002	3.006231	1154	-2.62	-2.59	-11.95	-18.09
1155	5.926136	6.409002	2.990654	1155	-2.62	-2.6	-11.95	-18.08
1156	5.911932	6.340509	2.990654	1156	-2.62	-2.6	-11.96	-18.09
1157	5.897727	6.369863	3.006231	1157	-2.62	-2.59	-11.96	-18.09
1158	5.940341	6.389432	3.037383	1158	-2.62	-2.6	-11.95	-18.09
1159	5.96875	6.340509	3.006231	1159	-2.62	-2.6	-11.95	-18.09
1160	5.954545	6.350294	3.021807	1160	-2.62	-2.6	-11.96	-18.09
1161	5.96875	6.399217	3.037383	1161	-2.62	-2.6	-11.96	-18.1
1162	5.954545	6.360078	3.006231	1162	-2.62	-2.6	-11.96	-18.09
1163	5.954545	6.340509	2.990654	1163	-2.62	-2.6	-11.95	-18.08
1164	5.96875	6.399217	3.006231	1164	-2.63	-2.6	-11.96	-18.08
1165	5.954545	6.409002	3.021807	1165	-2.63	-2.61	-11.96	-18.1
1166	5.954545	6.360078	3.006231	1166	-2.63	-2.6	-11.96	-18.09
1167	5.954545	6.350294	3.021807	1167	-2.62	-2.59	-11.95	-18.07
1168	5.954545	6.369863	3.006231	1168	-2.62	-2.6	-11.95	-18.07
1169	5.954545	6.369863	3.021807	1169	-2.63	-2.6	-11.95	-18.08
1170	5.940341	6.340509	3.021807	1170	-2.62	-2.59	-11.94	-18.08
1171	5.982955	6.311155	3.006231	1171	-2.6	-2.57	-11.93	-18.07

7.3 Adsorption Experimental Data

Adsorp_exp_1

Experiment type: Adsorption controlled experiment. There was no regolith in this experiment, just an empty petri dish. The humidity buffer was LiCl which has a RH of 11.31 at 0 degrees Celsius. Temperature around the sample was as close to -20 degrees Celsius as possible, cooled with liquid nitrogen and chiller system.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= humidity buffer 3= atmosphere 4= sample

Mass Min.	Mass	RH Min.	Ch02	Ch03	Ch04	T Min.	Ch01	Ch02	Ch03	Ch04
0	0	1	1.575251	23.48311	5.092937	0	21.03	21.98	22.37	22.57
2	18.43	2	2.979933	20.12162	4.702602	1	19.86	20.13	21.22	22.09
4	17.96	3	4.016722	16.10135	4.479554	2	17.86	16.64	18.91	21.07
6	17.58	4	4.535117	11.52365	4.591078	3	16.55	14.41	17.14	20.19
8	17.09	5	4.050167	7.773649	4.553903	4	15.45	11.85	16.13	19.29
10	17.02	6	3.0301	5.087838	3.977695	5	13.69	8.82	15.13	18.53
12	17.08	7	2.361204	2.959459	3.122677	6	12.72	6.03	13.98	17.96
14	17.16	8	2.143813	0.831081	2.118959	7	11.9	3.91	13.03	17.54
16	17.22	9	2.043478	1.77027	1.263941	8	11.63	2.35	12.24	17.12
18	17.35	10	1.608696	4.388514	0.650558	9	11.21	1.18	11.75	16.86
20	17.36	11	0.521739	6.381757	0.241636	10	10.28	-0.39	11.28	16.54
22	17.38	12	0.816054	7.682432	0.018587	11	10.09	-1.73	10.7	16.3
24	17.39	13	1.819398	8.594595	0.204461	12	9.36	-2.77	10.17	15.98
26	17.42	14	2.672241	9.439189	0.111524	13	8.77	-3.71	9.69	15.71
28	17.24	15	3.458194	10.13176	0.092937	14	8.6	-5.11	9.27	15.5
30	17.1	16	4.010033	10.77365	0.204461	15	7.9	-6.12	8.79	15.34
32	17.02	17	4.327759	11.31419	0.185874	16	7.68	-6.67	8.27	15.12
34	16.97	18	4.394649	11.80405	0.204461	17	7.03	-7.51	7.85	14.85
36	16.95	19	4.177258	12.3277	0.223048	18	7.2	-8.1	7.46	14.65
38	16.99	20	3.759197	12.73311	0.241636	19	6.81	-8.68	7.14	13.95
40	16.99	21	3.408027	13.00338	0.223048	20	6.2	-9.35	6.76	12.8
42	17.03	22	3.240803	13.25676	0.27881	21	5.99	-9.95	6.34	11.33
44	17.1	23	3.073579	13.20608	0.315985	22	5.06	-10.52	5.78	9.87
46	17.16	24	2.655518	12.58108	0.408922	23	4.46	-11.24	5.31	8.53
48	17.22	25	2.237458	11.66892	0.873606	24	3.75	-11.77	4.83	7.13
50	17.28	26	2.204013	11.04392	1.933086	25	3.06	-12.52	4.41	5.96
52	17.2	27	2.655518	11.26351	3.252788	26	2.33	-13.24	3.9	4.74
54	17.13	28	3.29097	12.07432	4.739777	27	0.81	-14.34	3.35	3.55
56	17.06	29	3.909699	13.03716	6.189591	28	-3.09	-16.63	2.15	2.69
58	16.98	30	4.377926	13.96622	7.267658	29	-0.7	-16.79	2.05	2.27
60	16.81	31	4.695652	14.8277	8.327138	30	0.24	-17.03	2.53	1.74
62	16.73	32	5.063545	15.52027	9.312268	31	-0.09	-17.38	2.49	1.09
64	16.73	33	5.481605	15.94257	9.814126	32	-0.02	-17.62	2.88	0.42
66	16.68	34	5.882943	16.26351	10.05576	33	0.49	-17.66	3.27	-0.15
68	16.71	35	6.334448	16.55068	10.13011	34	0.48	-17.66	3.45	-0.66
70	16.75	36	6.869565	16.66892	9.944238	35	0.47	-17.61	3.58	-1.15
72	16.79	37	7.538462	16.53378	9.702602	36	1.91	-17.14	3.81	-1.63
74	16.86	38	8.22408	16.38176	9.330855	37	1.63	-16.7	4.05	-2.12
76	16.85	39	8.742475	16.26351	9.070632	38	1.31	-16.33	4.2	-2.64
78	17.06	40	9.110368	16.21284	8.847584	39	1.61	-15.99	4.24	-3.17

80	17.06	41	9.361204	16.26351	8.494424	40	1.5	-15.75	4.25	-3.71
82	17.04	42	9.494983	16.24662	8.159851	41	1.16	-15.55	4.19	-4.25
84	16.88	43	9.645485	16.38176	7.95539	42	0.82	-15.39	4.09	-4.76
86	16.74	44	9.745819	16.51689	7.750929	43	-0.35	-15.18	3.96	-5.31
88	16.65	45	9.461538	16.60135	7.509294	44	-2.63	-14.83	3.93	-6.13
90	16.63	46	8.892977	16.60135	7.286245	45	-3.63	-14.69	3.07	-6.37
92	16.72	47	8.441472	16.36486	7.267658	46	0.62	-14.35	1.65	-6.76
94	16.74	48	8.408027	15.89189	7.230483	47	2.08	-13.13	0.79	-7.09
96	16.8	49	8.575251	15.35135	7.137546	48	13.52	-13.9	0.76	-8.52
98	16.86	50	8.474916	14.625	7.026022	49	12.48	-15.25	-0.91	-9.87
100	16.94	51	8.073579	13.67905	6.858736	50	-7.29	-16.73	-1.76	-10.41
102	16.98	52	7.73913	12.81757	6.69145	51	-14.61	-18.88	-3.35	-11.17
104	16.86	53	7.655518	12.34459	6.542751	52	-13.54	-19.39	-3.89	-11.54
106	16.76	54	7.856187	12.34459	6.319703	53	-12.28	-19.88	-3.99	-11.86
108	16.71	55	7.956522	12.66554	6.301115	54	-11.94	-20.8	-4.04	-12.31
110	16.72	56	8.073579	13.20608	6.542751	55	-11.05	-21.41	-3.79	-12.74
112	16.85	57	8.558528	13.83108	6.840149	56	-9.77	-21.56	-3.44	-12.97
114	16.91	58	9.244147	14.50676	7.063197	57	-9.73	-21.42	-2.94	-13.06
116	16.97	59	9.779264	14.97973	7.434944	58	-10.48	-21.27	-2.65	-13.12
118	17.07	60	10.11371	15.23311	7.825279	59	-9.36	-21.09	-2.46	-13.15
120	17.08	61	10.36455	15.58784	8.271375	60	-7.26	-20.87	-2.4	-13.17
122	17.12	62	10.66555	15.99324	8.66171	61	-6.02	-20.61	-2.4	-13.18
124	16.97	63	11.13378	16.43243	8.884758	62	-5.63	-20.4	-2.46	-13.16
126	16.83	64	11.58528	16.78716	9.01487	63	-5.52	-20.22	-2.53	-13.14
128	16.75	65	11.86957	17.05743	9.033457	64	-5.47	-20.1	-2.57	-13.12
130	16.83	66	12.05351	17.22635	9.01487	65	-5.45	-20.01	-2.6	-13.11
132	16.87	67	12.17057	17.3277	8.996283	66	-5.36	-19.93	-2.67	-13.1
134	16.91	68	12.28763	17.42905	8.903346	67	-5.21	-19.86	-2.71	-13.1
136	16.99	69	12.4214	17.44595	8.810409	68	-4.99	-19.79	-2.71	-13.09
138	17.07	70	12.48829	17.41216	8.680297	69	-4.87	-19.71	-2.76	-13.08
140	17.15	71	12.40468	17.27703	8.364312	70	-4.7	-19.65	-2.86	-13.05
142	17.18	72	12.28763	17.00676	8.011152	71	-4.61	-19.6	-2.92	-13.05
144	17.06	73	12.07023	16.60135	7.825279	72	-4.54	-19.56	-2.95	-13.04
146	16.9	74	11.61873	16.01014	7.639405	73	-4.46	-19.52	-3.07	-13
148	16.78	75	10.94983	15.09797	7.39777	74	-4.28	-19.47	-3.17	-12.95
150	16.77	76	10.29766	14.06757	6.951673	75	-4.98	-19.51	-3.3	-12.96
152	16.85	77	9.829431	13.32432	6.486989	76	-8.56	-19.85	-3.18	-12.99
154	16.92	78	9.913043	13.35811	6.115242	77	-9.14	-20.28	-3.25	-12.98
156	17	79	10.39799	14.03378	6.003717	78	-9.86	-20.61	-3.33	-12.94
158	17.09	80	10.88294	14.69257	6.171004	79	-10.22	-20.9	-3.43	-12.9
160	17.18	81	11.38462	15.26689	6.431227	80	-10.47	-21.18	-3.51	-12.87
162	17.21	82	11.85284	15.84122	6.747212	81	-10.84	-21.43	-3.61	-12.84
164	17.03	83	12.17057	16.33108	7.118959	82	-10.89	-21.65	-3.72	-12.81
166	16.89	84	12.45485	16.71959	7.60223	83	-10.32	-21.81	-3.79	-12.81
168	16.79	85	12.82274	17.04054	8.011152	84	-10.22	-21.89	-3.79	-12.79

170	16.73	86	12.98997	17.31081	8.364312	85	-10.92	-21.9	-3.85	-12.78
172	16.79	87	12.97324	17.53041	8.754647	86	-8.92	-21.82	-3.98	-12.79
174	16.9	88	13.02341	17.71622	9.089219	87	-9.45	-21.7	-4.28	-12.79
176	16.96	89	13.29097	17.90203	9.442379	88	-9.62	-21.51	-4.48	-12.71
178	17.04	90	13.62542	18.05405	9.739777	89	-9.22	-21.24	-4.53	-12.63
180	17.17	91	13.92642	18.1723	9.962825	90	-7.56	-20.98	-4.55	-12.56
182	17.19	92	14.17726	18.32432	10.11152	91	-5.63	-20.74	-4.55	-12.5
184	17.22	93	14.41137	18.44257	10.05576	92	-4.83	-20.58	-4.62	-12.49
186	17.07	94	14.62876	18.47635	10.20446	93	-4.9	-20.38	-4.6	-12.5
188	16.93	95	14.81271	18.52703	10.35316	94	-6.2	-20.21	-4.5	-12.54
190	16.81	96	14.97993	18.54392	10.4461	95	-7.25	-20.07	-4.42	-12.58
192	16.81	97	15.04682	18.51014	10.40892	96	-7.17	-19.95	-4.41	-12.64
194	16.89	98	14.99666	18.40878	10.33457	97	-5.7	-19.89	-4.39	-12.68
196	16.94	99	14.97993	18.32432	10.37175	98	-9.72	-19.74	-4.31	-12.69
198	17.01	100	14.86288	18.27365	10.48327	99	-11.78	-19.6	-4.41	-12.67
200	17.12	101	14.7291	18.25676	10.65056	100	-10.99	-19.5	-4.48	-12.67
202	17.22	102	14.5786	18.27365	10.87361	101	-7.66	-19.45	-4.61	-12.66
204	17.24	103	14.31104	18.29054	11.20818	102	-5.39	-19.35	-4.57	-12.69
206	17.14	104	14.09365	18.35811	11.54275	103	-5.19	-19.25	-4.47	-12.77
208	16.98	105	14.09365	18.375	11.80297	104	-5.32	-19	-4.37	-12.84
210	16.93	106	14.32776	18.45946	12.02602	105	-5.41	-18.89	-4.37	-12.91
212	16.99	107	14.67893	18.49324	12.19331	106	-12.64	-19.08	-4.69	-12.98
214	17.04	108	15.01338	18.49324	12.37918	107	-12.8	-19.49	-5.35	-12.97
216	17.09	109	15.31438	18.54392	12.47212	108	-12.43	-19.85	-5.8	-12.95
218	17.17	110	15.53177	18.5777	12.54647	109	-13.21	-20.22	-6.2	-12.94
220	17.25	111	15.76589	18.54392	12.65799	110	-14.12	-20.42	-6.5	-12.91
222	17.25	112	15.98328	18.61149	12.63941	111	-10.14	-20.68	-6.35	-12.87
224	17.24	113	16.05017	18.59459	12.63941	112	-10.44	-20.96	-6.34	-12.84
226	17.11	114	16.10033	18.56081	12.63941	113	-9.78	-21.19	-6.37	-12.82
228	16.97	115	16.11706	18.42568	12.56506	114	-9.46	-21.32	-6.42	-12.79
230	16.89	116	15.96656	18.1723	12.39777	115	-10.45	-21.43	-6.46	-12.75
232	16.93	117	15.699	17.78378	12.13755	116	-9.99	-21.44	-6.45	-12.74
234	16.96	118	15.36455	17.36149	11.89591	117	-9.24	-21.35	-6.38	-12.73
236	17.01	119	15.19732	17.15878	11.80297	118	-8.28	-21.22	-6.26	-12.74
238	17.07	120	15.14716	17.15878	11.82156	119	-6.28	-21.06	-6.21	-12.74
240	17.19	121	15.13043	17.24324	11.89591	120	-3.78	-20.82	-6.16	-12.7
242	17.25	122	15.19732	17.41216	12.23048	121	-5.34	-20.5	-6.23	-12.63
244	17.3	123	15.29766	17.59797	12.43494	122	-4.43	-20.4	-6.19	-12.6
246	17.29	124	15.36455	17.68243	12.60223	123	-4.75	-20.09	-6	-12.63
248	17.14	125	15.19732	17.69932	12.7881	124	-5.11	-19.69	-5.84	-12.71
250	17.06	126	15.14716	17.73311	12.99257	125	-5.06	-19.16	-5.7	-12.75
252	17.09	127	15.38127	17.90203	13.2342	126	-4.75	-18.7	-5.6	-12.81
254	17.09	128	15.76589	18.08784	13.3829	127	-4.67	-18.2	-5.51	-12.8
256	17.13	129	16.06689	18.1723	13.45725	128	-4.73	-17.66	-5.41	-12.72
258	17.18	130	16.23411	18.23986	13.56877	129	-5.18	-17.38	-5.42	-12.76

260	17.29	131	16.38462	18.30743	13.56877	130	-7.19	-18.03	-5.68	-13.05
262	17.29	132	16.53512	18.35811	13.51301	131	-9.06	-18.7	-6.47	-13.11
264	17.33	133	16.68562	18.42568	13.42007	132	-9.3	-19.22	-7.08	-13.13
266	17.23	134	16.76923	18.51014	13.55019	133	-9.03	-19.56	-7.65	-13.14
268	17.09	135	16.73579	18.51014	13.64312	134	-10.63	-19.63	-8.05	-13.12
270	17.07	136	16.78595	18.39189	13.62454	135	-10.39	-19.78	-8.29	-13.05
272	17.12	137	16.6689	18.20608	13.49442	136	-9.04	-20.66	-8.03	-13.04
274	17.14	138	16.53512	18.03716	13.42007	137	-12.7	-20.52	-8.29	-13.02
276	17.2	139	16.41806	17.91892	13.30855	138	-11.93	-20.97	-8.56	-12.97
278	17.29	140	16.33445	17.91892	13.19703	139	-10.56	-21.13	-8.77	-12.91
280	17.33	141	16.33445	17.91892	13.2342	140	-10.64	-21.23	-8.48	-12.88
282	17.39	142	16.41806	17.88514	13.30855	141	-11.89	-21.41	-8.3	-12.85
284	17.35	143	16.55184	17.93581	13.34572	142	-9.25	-21.51	-8.14	-12.85
286	17.23	144	16.63545	17.98649	13.45725	143	-6.79	-21.42	-7.96	-12.81
288	17.21	145	16.60201	18.07095	13.71747	144	-1.04	-21.38	-7.82	-12.77
290	17.21	146	16.50167	18.03716	13.86617	145	0.06	-21.16	-7.68	-12.75
292	17.23	147	16.51839	18.00338	13.9777	146	-1.31	-20.74	-7.54	-12.72
294	17.28	148	16.65217	17.9527	14.23792	147	-2.69	-20.34	-7.41	-12.71
296	17.37	149	16.8194	17.9527	14.42379	148	-2.23	-19.88	-7.31	-12.69
298	17.43	150	16.91973	18.00338	14.47955	149	-1.64	-19.34	-7.21	-12.73
300	17.48	151	17.00334	18.10473	14.53532	150	-6.61	-19.56	-7.24	-12.97
302	17.49	152	17.05351	18.10473	14.51673	151	-11.09	-19.84	-7.89	-13.08
304	17.35	153	17.10368	18.13851	14.60967	152	-10.7	-20.23	-8.64	-13.08
306	17.21	154	17.20401	18.12162	14.68401	153	-10.99	-20.54	-9.18	-13.08
308	17.13	155	17.22074	18.18919	14.7026	154	-12.48	-20.72	-9.63	-13.07
310	17.15	156	17.22074	18.18919	14.64684	155	-14.35	-20.86	-9.89	-13.05
312	17.19	157	17.18729	18.05405	14.7026	156	-9.92	-21.49	-9.76	-13.07
314	17.27	158	17.05351	17.91892	14.53532	157	-8.73	-21.67	-9.51	-13.12
316	17.43	159	16.9699	17.88514	14.44238	158	-7.77	-21.72	-9.35	-13.18
318	17.53	160	16.9699	17.81757	14.53532	159	-5.7	-21.34	-9.14	-13.18
320	17.58	161	16.90301	17.85135	14.57249	160	-3.26	-21.22	-8.98	-13.14
322	17.63	162	16.86957	17.91892	14.62825	161	-2.79	-21.16	-8.83	-13.08
324	17.57	163	16.85284	17.90203	14.53532	162	-3.36	-21.01	-8.7	-13.06
326	17.44	164	16.85284	17.98649	14.68401	163	-2.88	-20.73	-8.58	-13.06
328	17.43	165	16.88629	18.03716	14.92565	164	-2.39	-20.33	-8.47	-13.06
330	17.42	166	16.93645	17.98649	15.11152	165	-2.72	-19.84	-8.33	-13.07
332	17.44	167	16.98662	17.98649	15.27881	166	-2.43	-19.36	-8.19	-13.07
334	17.5	168	17.07023	18.00338	15.40892	167	-3.04	-18.89	-8.05	-13.06
336	17.6	169	17.18729	17.96959	15.48327	168	-3.94	-18.43	-7.92	-13.04
338	17.6	170	17.2709	17.98649	15.53903	169	-4.57	-17.96	-7.82	-13.01
340	17.66	171	17.32107	18.02027	15.70632	170	-7.21	-18.42	-7.96	-13.26
342	17.7	172	17.38796	18.00338	15.79926	171	-9.15	-18.94	-8.52	-13.34
344	17.57	173	17.47157	18.07095	15.89219	172	-9.9	-19.57	-9.14	-13.36
346	17.43	174	17.52174	18.12162	15.87361	173	-10.56	-20.17	-9.76	-13.38
348	17.42	175	17.48829	18.15541	15.96654	174	-10.28	-20.67	-10.22	-13.4

350	17.42	176	17.53846	18.13851	15.91078	175	-11.24	-20.86	-10.71	-13.43
352	17.44	177	17.48829	18.02027	15.74349	176	-14.47	-20.75	-11.57	-13.42
354	17.5	178	17.25418	17.76689	15.61338	177	-9.31	-21.05	-11.48	-13.4
356	17.6	179	16.95318	17.46284	15.50186	178	-6.84	-21.2	-11.01	-13.47
358	17.64	180	16.65217	17.22635	15.26022	179	-6.73	-21.16	-10.6	-13.49
360	17.69	181	16.48495	17.24324	15.03717	180	-5.36	-21.18	-10.33	-13.47
362	17.79	182	16.41806	17.26014	14.98141	181	-4.5	-21.1	-10.14	-13.45
364	17.7	183	16.38462	17.34459	15.03717	182	-4.31	-20.96	-9.96	-13.42
366	17.7	184	16.46823	17.47973	15.13011	183	-4.15	-20.82	-9.85	-13.41
		185	16.58528	17.59797	15.27881	184	-3.85	-20.55	-9.72	-13.37
		186	16.6689	17.64865	15.46468	185	-3.77	-20.15	-9.58	-13.29
		187	16.75251	17.73311	15.52045	186	-2.77	-19.73	-9.38	-13.27
		188	16.83612	17.85135	15.63197	187	-3.05	-19.28	-9.2	-13.26
		189	16.91973	17.96959	15.89219	188	-2.8	-18.81	-9.05	-13.26
		190	17.07023	18.03716	16.13383	189	-4.03	-18.4	-8.92	-13.28
		191	17.18729	18.02027	16.26394	190	-6.79	-18.56	-8.95	-13.49
		192	17.30435	18.10473	16.37546	191	-8.98	-19.07	-9.42	-13.67
		193	17.38796	18.18919	16.37546	192	-8.85	-19.36	-9.81	-13.71
		194	17.45485	18.27365	16.30112	193	-9.69	-19.67	-10.06	-13.73
		195	17.48829	18.30743	16.28253	194	-10.6	-20.19	-10.23	-13.73
		196	17.48829	18.30743	16.37546	195	-10.92	-20.68	-10.38	-13.75
		197	17.53846	18.25676	16.39405	196	-11.3	-21.36	-10.77	-13.75
		198	17.47157	18.15541	16.3197	197	-12.3	-21.6	-11.86	-13.64
		199	17.30435	17.98649	16.15242	198	-8.54	-21.69	-11.71	-13.7
		200	16.9699	17.71622	15.91078	199	-7.41	-21.74	-11.39	-13.81
		201	16.65217	17.42905	15.72491	200	-6.25	-21.75	-11.29	-13.78
		202	16.43478	17.26014	15.66914	201	-5.6	-21.68	-11.25	-13.71
		203	16.28428	17.24324	15.50186	202	-5.35	-21.5	-11.18	-13.65
		204	16.28428	17.34459	15.40892	203	-5.08	-21.3	-10.96	-13.6
		205	16.36789	17.42905	15.42751	204	-4.93	-21.04	-10.75	-13.56
		206	16.55184	17.49662	15.52045	205	-4.41	-20.7	-10.58	-13.5
		207	16.71906	17.53041	15.57621	206	-3.61	-20.28	-10.39	-13.46
		208	16.86957	17.66554	15.74349	207	-3.13	-19.82	-10.23	-13.4
		209	17.05351	17.76689	15.83643	208	-3.07	-19.36	-10.06	-13.35
		210	17.20401	17.91892	16.0223	209	-2.79	-18.87	-9.91	-13.3
		211	17.28763	18.08784	16.28253	210	-7.98	-19.26	-9.98	-13.49
		212	17.43813	18.13851	16.22677	211	-9.63	-19.66	-10.42	-13.68
		213	17.50502	18.1723	16.26394	212	-9.29	-19.96	-10.73	-13.77
		214	17.50502	18.23986	16.24535	213	-9.86	-20.38	-10.97	-13.84
		215	17.53846	18.29054	16.26394	214	-10.46	-20.78	-11.18	-13.87
		216	17.57191	18.30743	16.22677	215	-11.1	-21.14	-11.37	-13.89
		217	17.45485	18.22297	16.18959	216	-11.6	-21.85	-11.56	-13.94
		218	17.18729	17.90203	15.98513	217	-11.7	-22.29	-12.1	-13.91
		219	16.83612	17.47973	15.72491	218	-9.76	-22.38	-12.15	-14.06
		220	16.60201	17.26014	15.65056	219	-9.01	-22.52	-11.96	-14.26

221	16.53512	17.31081	15.5948	220	-7.2	-22.54	-11.89	-14.23
222	16.60201	17.37838	15.61338	221	-6.46	-22.48	-11.89	-14.14
223	16.6689	17.46284	15.50186	222	-5.85	-22.36	-11.81	-14.04
224	16.76923	17.61486	15.63197	223	-5.79	-22.16	-11.72	-13.96
225	16.86957	17.76689	15.85502	224	-5.61	-21.88	-11.52	-13.88
226	16.86957	17.88514	16.07807	225	-5.21	-21.52	-11.33	-13.78
227	16.95318	17.91892	16.30112	226	-4.23	-21.08	-11.15	-13.7
228	17.08696	18.03716	16.43123	227	-3.53	-20.58	-10.98	-13.6
229	17.18729	18.15541	16.52416	228	-2.89	-20.07	-10.83	-13.53
230	17.28763	18.23986	16.6171	229	-3.41	-19.6	-10.67	-13.47
231	17.38796	18.23986	16.7658	230	-5.2	-19.2	-10.52	-13.44
232	17.47157	18.27365	16.87732	231	-5.07	-18.8	-10.43	-13.47
233	17.57191	18.32432	16.95167	232	-8.05	-19.21	-10.55	-13.69
234	17.65552	18.42568	17.02602	233	-10.56	-20.01	-11.06	-13.84
235	17.6388	18.51014	17.02602	234	-9.78	-20.23	-11.48	-13.87
236	17.67224	18.54392	16.97026	235	-10.2	-20.61	-11.76	-13.93
237	17.60535	18.44257	16.95167	236	-10.69	-21.4	-11.96	-14.02
238	17.50502	18.32432	16.85874	237	-12.2	-22.15	-12.25	-14.05
239	17.2709	18.00338	16.69145	238	-12.1	-22.33	-12.99	-13.98
240	16.80268	17.41216	16.39405	239	-10.16	-22.67	-12.88	-14.01
241	16.21739	16.66892	16.0223	240	-9.38	-22.72	-12.79	-14.05
242	15.78261	16.24662	15.55762	241	-7.62	-22.59	-12.75	-14.01
243	15.59866	16.31419	15.40892	242	-6.75	-22.57	-12.7	-13.92
244	15.58194	16.51689	15.22305	243	-6.29	-22.52	-12.57	-13.82
245	15.699	16.78716	15.22305	244	-6.44	-22.33	-12.41	-13.74
246	15.89967	17.02365	15.37175	245	-6.09	-22.07	-12.26	-13.68
247	16.13378	17.19257	15.57621	246	-5.38	-21.72	-12.08	-13.61
248	16.40134	17.36149	15.68773	247	-4.62	-21.32	-11.88	-13.6
249	16.70234	17.59797	15.78067	248	-3.64	-20.84	-11.7	-13.6
250	16.91973	17.80068	15.94796	249	-3.24	-20.34	-11.53	-13.56
251	17.05351	17.93581	16.05948	250	-4.06	-19.9	-11.36	-13.54
252	17.20401	18.05405	16.20818	251	-5.73	-19.49	-11.19	-13.52
253	17.35452	18.20608	16.22677	252	-7.02	-19.41	-11.15	-13.63
254	17.48829	18.34122	16.39405	253	-10.41	-20	-11.56	-13.85
255	17.55518	18.35811	16.54275	254	-8.78	-20.49	-12.1	-13.96
256	17.62207	18.40878	16.59851	255	-8.95	-20.96	-12.55	-14.06
257	17.57191	18.39189	16.4684	256	-10.92	-21.91	-12.84	-14.05
258	17.45485	18.22297	16.33829	257	-9.02	-21.97	-12.93	-14.04
259	17.17057	17.93581	16.09665	258	-8.17	-21.97	-12.94	-14.1
260	16.76923	17.53041	15.98513	259	-7.38	-22.03	-12.96	-14.08
261	16.51839	17.27703	15.83643	260	-6.82	-21.97	-12.92	-13.98
262	16.38462	17.29392	15.72491	261	-6.75	-21.89	-12.82	-13.9
263	16.41806	17.3277	15.63197	262	-6.51	-21.76	-12.68	-13.85
264	16.53512	17.39527	15.68773	263	-5.92	-21.57	-12.54	-13.79
265	16.6689	17.51351	15.79926	264	-5.1	-21.28	-12.39	-13.75

266	16.80268	17.64865	16.0223	265	-4.51	-20.9	-12.22	-13.7
267	16.86957	17.76689	16.20818	266	-3.96	-20.5	-12.08	-13.63
268	17.00334	17.93581	16.39405	267	-3.26	-20.07	-11.93	-13.59
269	17.17057	17.96959	16.44981	268	-3.93	-19.66	-11.76	-13.55
270	17.30435	18.07095	16.4684	269	-5.77	-19.32	-11.62	-13.52
271	17.4214	18.13851	16.59851	270	-5.82	-18.9	-11.48	-13.5
272	17.55518	18.27365	16.71004	271	-6.71	-18.79	-11.45	-13.59
273	17.6388	18.32432	16.9145	272	-10.32	-19.49	-11.8	-13.83
274	17.60535	18.44257	16.98885	273	-9.55	-19.98	-12.35	-13.92
275	17.58863	18.42568	16.93309	274	-10.05	-20.38	-12.76	-13.96
276	17.60535	18.34122	16.85874	275	-10.8	-20.91	-13.02	-14
277	17.43813	18.20608	16.69145	276	-11.52	-21.55	-13.31	-14.03
278	17.1204	17.78378	16.44981	277	-12.16	-22.34	-13.92	-13.94
279	16.75251	17.37838	16.171	278	-10.23	-22.68	-13.95	-13.91
280	16.48495	17.19257	15.96654	279	-9.05	-22.61	-13.82	-13.96
281	16.46823	17.27703	15.96654	280	-7.66	-22.62	-13.81	-13.93
282	16.48495	17.34459	16.07807	281	-7.22	-22.69	-13.71	-13.86
283	16.56856	17.36149	16.11524	282	-6.98	-22.67	-13.54	-13.82
284	16.75251	17.51351	16.20818	283	-6.84	-22.51	-13.4	-13.77
285	16.85284	17.71622	16.28253	284	-6.35	-22.32	-13.26	-13.73
286	17.00334	17.86824	16.44981	285	-5.82	-22.03	-13.09	-13.71
287	17.15385	17.93581	16.6171	286	-5.3	-21.64	-12.88	-13.68
288	17.25418	18.02027	16.82156	287	-4.41	-21.19	-12.68	-13.64
289	17.37124	18.13851	17.00743	288	-3.9	-20.71	-12.51	-13.6
290	17.48829	18.25676	17.00743	289	-3.59	-20.21	-12.34	-13.52
291	17.55518	18.34122	17.13755	290	-5.55	-19.82	-12.17	-13.53
292	17.60535	18.39189	17.24907	291	-5.92	-19.36	-12.01	-13.5
293	17.6388	18.39189	17.19331	292	-5.49	-18.86	-11.86	-13.48
294	17.60535	18.40878	17.11896	293	-6.64	-18.78	-11.83	-13.64
295	17.50502	18.23986	17.04461	294	-10.25	-19.51	-12.27	-13.93
296	17.20401	17.91892	16.87732	295	-10.13	-20.14	-12.89	-14
297	16.6689	17.3277	16.56134	296	-11.05	-20.99	-13.27	-14.05
298	16.1505	16.71959	16.24535	297	-10.46	-21.96	-13.87	-13.97
299	15.8495	16.58446	16.11524	298	-9.08	-21.76	-13.97	-13.96
300	15.79933	16.68581	16.05948	299	-7.5	-21.83	-14.09	-14.01
301	15.86622	16.82095	15.96654	300	-7.41	-21.99	-14.06	-13.96
302	15.98328	16.98986	15.87361	301	-7.43	-22.04	-13.92	-13.9
303	16.20067	17.10811	16.0223	302	-7.19	-22	-13.84	-13.85
304	16.38462	17.26014	16.26394	303	-6.65	-21.92	-13.73	-13.79
305	16.51839	17.46284	16.41264	304	-6.11	-21.76	-13.57	-13.76
306	16.68562	17.59797	16.50558	305	-5.72	-21.49	-13.39	-13.73
307	16.83612	17.76689	16.72862	306	-5.09	-21.13	-13.21	-13.7
308	16.95318	17.88514	16.85874	307	-4.36	-20.73	-13.04	-13.66
309	17.05351	18.00338	17.0632	308	-3.68	-20.29	-12.87	-13.61
310	17.20401	18.10473	17.11896	309	-4.64	-19.88	-12.69	-13.57

311	17.37124	18.20608	17.13755	310	-6.11	-19.52	-12.52	-13.53
312	17.45485	18.29054	17.23048	311	-6.05	-19.09	-12.36	-13.49
313	17.50502	18.375	17.41636	312	-8.19	-19.34	-12.4	-13.69
314	17.55518	18.47635	17.52788	313	-10.88	-20.06	-13.03	-13.95
315	17.60535	18.45946	17.41636	314	-9.74	-20.58	-13.71	-14
316	17.48829	18.375	17.24907	315	-10.6	-21.34	-14.05	-14.08
317	17.2709	18.12162	17.19331	316	-10.34	-22.05	-14.28	-14.04
318	16.90301	17.61486	16.98885	317	-9.58	-22.01	-14.34	-14.13
319	16.43478	17.07432	16.6171	318	-8.46	-22.21	-14.39	-14.21
320	16.1505	16.90541	16.37546	319	-7.77	-22.2	-14.42	-14.17
321	16.08361	17.02365	16.28253	320	-7.53	-22.21	-14.31	-14.13
322	16.11706	17.15878	16.26394	321	-7.43	-22.15	-14.17	-14.09
323	16.21739	17.29392	16.41264	322	-6.77	-22.01	-14	-14.02
324	16.45151	17.46284	16.54275	323	-6.11	-21.8	-13.82	-13.96
325	16.70234	17.63176	16.54275	324	-5.53	-21.49	-13.65	-13.9
326	16.86957	17.78378	16.67286	325	-4.97	-21.11	-13.48	-13.84
327	16.98662	17.9527	16.89591	326	-4.44	-20.71	-13.32	-13.75
328	17.15385	18.15541	17.11896	327	-3.79	-20.27	-13.15	-13.72
329	17.32107	18.27365	17.19331	328	-6.41	-19.94	-12.97	-13.71
330	17.4214	18.35811	17.32342	329	-6.35	-19.54	-12.81	-13.67
331	17.48829	18.45946	17.32342	330	-7.1	-19.2	-12.69	-13.64
332	17.52174	18.54392	17.37918	331	-10.17	-19.74	-12.9	-13.9
333	17.52174	18.56081	17.37918	332	-10.67	-20.48	-13.77	-14.05
334	17.43813	18.56081	17.37918	333	-10.32	-20.84	-14.43	-14.08
335	17.2709	18.375	17.2119	334	-10.27	-21.76	-14.64	-14.07
336	17.00334	17.9527	16.98885	335	-9.36	-21.8	-14.67	-14.17
337	16.48495	17.26014	16.71004	336	-8.34	-21.98	-14.67	-14.27
338	16.03344	16.75338	16.43123	337	-7.74	-22.04	-14.69	-14.18
339	15.91639	16.78716	16.3197	338	-7.71	-22.07	-14.61	-14.11
340	16	16.97297	16.20818	339	-7.4	-22.05	-14.46	-14.04
341	16.13378	17.125	16.37546	340	-6.74	-21.96	-14.28	-14.01
342	16.21739	17.22635	16.41264	341	-6.26	-21.77	-14.11	-14
343	16.36789	17.36149	16.6171	342	-5.69	-21.48	-13.96	-13.98
344	16.55184	17.63176	16.89591	343	-5.14	-21.14	-13.79	-13.94
345	16.73579	17.88514	17.11896	344	-4.68	-20.73	-13.63	-13.9
346	16.90301	17.96959	17.28625	345	-4.73	-20.3	-13.46	-13.83
347	17.05351	18.13851	17.45353	346	-6.83	-19.98	-13.28	-13.76
348	17.17057	18.23986	17.54647	347	-6.61	-19.59	-13.12	-13.68
349	17.28763	18.35811	17.54647	348	-6.36	-19.14	-12.95	-13.58
350	17.40468	18.47635	17.62082	349	-6.36	-18.8	-12.84	-13.58
351	17.50502	18.54392	17.67658	350	-9.99	-19.65	-13.11	-13.96
352	17.58863	18.61149	17.7881	351	-10.25	-20.47	-14.05	-14.14
353	17.62207	18.62838	17.71375	352	-9.53	-21	-14.68	-14.19
354	17.52174	18.59459	17.73234	353	-10.98	-21.28	-15.06	-14.2
355	17.40468	18.375	17.63941	354	-11.71	-21.67	-15.19	-14.26

356	17.1204	18.00338	17.43494	355	-11.49	-22.72	-15.35	-14.24
357	16.78595	17.64865	17.23048	356	-9.91	-22.92	-15.39	-14.22
358	16.60201	17.51351	17.11896	357	-8.92	-22.95	-15.32	-14.35
359	16.65217	17.68243	17.04461	358	-8.49	-23.02	-15.25	-14.3
360	16.78595	17.88514	17.04461	359	-8.24	-22.99	-15.1	-14.22
361	16.98662	18.05405	17.19331	360	-7.97	-22.89	-14.89	-14.18
362	17.15385	18.20608	17.32342	361	-7.45	-22.73	-14.7	-14.14
363	17.2709	18.35811	17.49071	362	-6.81	-22.52	-14.53	-14.13
364	17.37124	18.45946	17.67658	363	-6.1	-22.2	-14.37	-14.09
365	17.47157	18.52703	17.82528	364	-5.53	-21.81	-14.19	-14.02
366	17.57191	18.5777	17.95539	365	-4.93	-21.36	-14.02	-13.95
367	17.65552	18.67905	18.04833	366	-5.62	-20.86	-13.85	-13.85

Adsorp_exp_2

Experiment type: Adsorption experiment. The regolith type is JSC Mars-1 in this experiment, with a thickness of 2mm. The sample's initial weight was 24.66 g. The humidity buffer was LiCl which has a RH of 11.31 at 0 degrees Celsius. Temperature around the sample was as close to -20 degrees Celsius as possible, cooled with liquid nitrogen and chiller system.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= humidity buffer 3= atmosphere 4= sample

Mass Min.	Mass	RH Min				T Min				
		.	Ch02	Ch03	Ch04		.	Ch01	Ch02	Ch03
0	0.00	0	5.448161	29.80068	12.52788	0	-12.71	-22.93	-5.09	-14.24
2	24.66	1	3.307692	33.80405	12.86245	1	-14.44	-23.22	-5.96	-14.04
4	58.53	2	1.468227	30.91554	13.15985	2	-14.65	-23.78	-6.37	-13.94
6	60.73	3	0.371237	26.97973	13.36431	3	-14.67	-24.4	-6.23	-13.96
8	60.62	4	2.110368	23.31419	13.56877	4	-12.42	-24.76	-5.89	-13.97
10	60.38	5	3.347826	19.00676	13.64312	5	-10.41	-24.68	-5.4	-13.94
12	60.32	6	4.050167	15.93243	13.51301	6	-9.12	-24.86	-5.32	-13.83
14	60.34	7	4.133779	14.53041	13.5316	7	-8.24	-24.85	-5.26	-13.7
16	60.48	8	2.862876	12.18243	13.56877	8	-8	-24.61	-5.18	-13.61
18	60.49	9	0.906355	8.837838	13.60595	9	-7.22	-24.45	-5.17	-13.49
20	60.51	10	0.632107	5.628378	13.62454	10	-8.05	-24.27	-5.26	-13.38
22	60.53	11	1.752508	2.722973	13.55019	11	-9.69	-24.24	-5.38	-13.32
24	60.56	12	2.755853	0.10473	13.69888	12	-8.15	-24.15	-5.42	-13.23

26	60.59	13	3.675585	2.293919	13.829	13	-8.12	-24.05	-5.33	-13.18
28	60.62	14	4.545151	4.371622	13.84758	14	-8.43	-23.92	-5.39	-13.11
30	60.64	15	5.197324	6.111486	13.829	15	-5.96	-23.89	-5.4	-13.11
32	60.65	16	5.749164	7.682432	13.829	16	-5.92	-23.72	-5.41	-13.13
34	60.65	17	6.284281	8.966216	13.86617	17	-5.86	-23.62	-5.47	-13.14
36	60.65	18	6.785953	9.945946	13.94052	18	-5.67	-23.55	-5.6	-13.17
38	60.63	19	7.204013	10.70608	13.86617	19	-5.04	-23.5	-5.65	-13.19
40	60.61	20	7.421405	11.44932	13.88476	20	-4.58	-23.49	-5.71	-13.25
42	60.58	21	7.337793	12.26014	13.86617	21	-4.4	-23.31	-5.57	-13.33
44	60.58	22	7.137124	13.10473	13.79182	22	-4.5	-23.23	-5.65	-13.38
46	60.58	23	6.886288	13.93243	13.73606	23	-4.48	-23.19	-5.76	-13.4
48	60.57	24	6.752508	14.50676	13.79182	24	-4.43	-23.12	-5.79	-13.46
50	60.56	25	6.652174	14.89527	13.79182	25	-5.55	-23.07	-5.96	-13.5
52	60.57	26	6.702341	15.19932	13.90335	26	-6.54	-23.01	-6.1	-13.51
54	60.60	27	6.852843	15.38514	13.86617	27	-6.6	-22.97	-6.07	-13.48
56	60.60	28	7.120401	15.58784	13.88476	28	-6.62	-22.96	-6.1	-13.46
58	60.59	29	7.404682	15.84122	13.90335	29	-6.52	-22.96	-6.04	-13.4
60	60.58	30	7.505017	15.75676	13.84758	30	-6.84	-23.02	-5.95	-13.35
62	60.60	31	7.588629	15.46959	13.88476	31	-8.62	-23.09	-5.87	-13.29
64	60.58	32	7.438127	15.23311	13.86617	32	-11.35	-22.97	-6.03	-13.2
66	60.61	33	7.187291	15.14865	13.95911	33	-8.68	-22.97	-6.16	-13.12
68	60.61	34	6.953177	15.03041	13.9777	34	-13.6	-22.89	-6.34	-13.1
70	60.62	35	6.886288	15.0473	13.94052	35	-13.99	-22.87	-6.39	-13.1
72	60.64	36	7.003344	15.09797	14.03346	36	-14.46	-22.93	-6.35	-13.1
74	60.66	37	7.170569	14.92905	14.05204	37	-14.27	-22.91	-6.36	-13.06
76	60.93	38	7.354515	14.74324	13.95911	38	-14.32	-22.84	-6.34	-13.03
78	60.90	39	7.488294	14.55743	14.01487	39	-13.88	-22.66	-6.35	-13.01
80	60.82	40	7.153846	14.40541	13.99628	40	-12.9	-22.61	-6.43	-13
82	60.67	41	6.585284	14.18581	14.08922	41	-11.83	-22.58	-6.56	-13.02
84	60.59	42	6.250836	13.89865	14.05204	42	-11.16	-22.54	-6.74	-13.02
86	60.55	43	6.351171	13.59459	14.07063	43	-10.34	-22.43	-6.81	-13.04
88	60.52	44	6.719064	13.27365	14.10781	44	-9.68	-22.24	-6.81	-13.09
90	60.59	45	7.153846	13.02027	14.12639	45	-9.39	-22.13	-6.72	-13.13
92	60.60	46	7.538462	12.86824	14.12639	46	-10.13	-22	-6.62	-13.13
94	60.58	47	7.889632	12.80068	14.08922	47	-14.24	-21.92	-6.67	-13.09
96	60.62	48	8.140468	12.80068	14.16357	48	-15.39	-21.84	-6.68	-13.07
98	60.61	49	8.307692	12.85135	14.08922	49	-13.1	-21.7	-6.72	-13.03
100	60.69	50	8.458194	12.9527	14.05204	50	-11.18	-21.6	-6.86	-13.07
102	60.78	51	8.558528	12.96959	14.07063	51	-10.46	-21.52	-7.02	-13.08
104	60.91	52	8.658863	12.98649	14.08922	52	-9.95	-21.43	-7.11	-13.07
106	60.83	53	8.692308	12.9527	14.18216	53	-9.95	-21.35	-7.19	-13.06
108	60.71	54	8.541806	12.93581	14.20074	54	-9.79	-21.26	-7.21	-13.04
110	60.64	55	8.391304	12.83446	14.18216	55	-9.29	-21.11	-7.26	-13.04
112	60.65	56	8.22408	12.71622	14.21933	56	-8.92	-20.97	-7.22	-13.05
114	60.68	57	8.173913	12.73311	14.25651	57	-8.54	-20.84	-7.17	-13.05

116	60.71	58	8.240803	12.73311	14.25651	58	-8.34	-20.73	-7.12	-13.05
118	60.74	59	8.341137	12.76689	14.14498	59	-8.21	-20.65	-7.05	-13.06
120	60.83	60	8.441472	12.75	14.25651	60	-8.05	-20.56	-6.96	-13.11
122	60.76	61	8.541806	12.73311	14.25651	61	-8.42	-20.44	-6.84	-13.12
124	60.68	62	8.525084	12.73311	14.14498	62	-8.18	-20.3	-6.77	-13.11
126	60.62	63	8.307692	12.58108	14.18216	63	-8.01	-20.19	-6.75	-13.11
128	60.58	64	8.123746	12.36149	14.16357	64	-7.82	-20.13	-6.66	-13.14
130	60.58	65	8.090301	12.26014	14.07063	65	-7.66	-19.98	-6.61	-13.19
132	60.63	66	8.240803	12.15878	14.08922	66	-7.42	-19.9	-6.54	-13.24
134	60.70	67	8.474916	12.15878	13.95911	67	-7.44	-19.83	-6.51	-13.26
136	60.73	68	8.658863	12.17568	13.94052	68	-7.37	-19.7	-6.5	-13.26
138	60.80	69	8.792642	12.10811	13.95911	69	-7.22	-19.57	-6.45	-13.26
140	60.85	70	8.943144	11.93919	13.86617	70	-7.05	-19.57	-6.44	-13.25
142	60.85	71	8.993311	11.87162	13.86617	71	-10.15	-19.48	-6.51	-13.27
144	60.78	72	8.474916	11.33108	13.79182	72	-11.88	-19.56	-6.75	-13.23
146	60.69	73	6.936455	9.945946	13.71747	73	-9.85	-19.85	-6.83	-13.28
148	60.71	74	4.946488	8.64527	13.62454	74	-13.27	-19.89	-6.76	-13.32
150	60.74	75	3.090301	7.834459	13.62454	75	-13.99	-20	-6.86	-13.35
152	60.78	76	1.90301	7.361486	13.66171	76	-14.53	-20.26	-7.47	-13.38
154	60.83	77	1.652174	7.277027	13.77323	77	-11.78	-20.84	-8.2	-13.4
156	60.87	78	2.170569	7.614865	13.88476	78	-13.41	-20.87	-8.91	-13.36
158	60.82	79	2.605351	8.425676	14.01487	79	-14.54	-21.02	-9.41	-13.28
160	60.71	80	2.622074	9.658784	14.07063	80	-10.85	-21.19	-8.92	-13.22
162	60.67	81	3.759197	10.89189	14.18216	81	-11.8	-21.32	-8.57	-13.2
164	60.67	82	5.632107	11.85473	14.36803	82	-12.73	-21.54	-8.42	-13.21
166	60.71	83	7.32107	12.75	14.60967	83	-8.87	-21.68	-8.38	-13.23
168	60.77	84	8.508361	13.40878	14.66543	84	-5.23	-21.59	-8.29	-13.23
170	60.82	85	9.327759	13.96622	14.72119	85	-7.81	-21.66	-8.15	-13.22
172	60.86	86	9.896321	14.45608	14.7026	86	-9.08	-21.71	-8.08	-13.23
174	60.89	87	10.21405	14.72635	14.75836	87	-6.62	-21.67	-8.02	-13.22
176	60.76	88	10.43144	14.89527	14.59108	88	-5.29	-21.74	-8.19	-13.19
178	60.69	89	10.66555	14.99662	14.57249	89	-6.41	-21.6	-8.35	-13.18
180	60.67	90	10.94983	15.14865	14.59108	90	-5.57	-21.38	-8.35	-13.16
182	60.69	91	11.21739	15.30068	14.5539	91	-6.36	-21.12	-8.17	-13.21
184	60.73	92	11.38462	15.33446	14.46097	92	-7.06	-20.9	-8.08	-13.23
186	60.81	93	11.45151	15.23311	14.49814	93	-6.74	-20.77	-7.99	-13.26
188	60.86	94	11.31773	14.96284	14.47955	94	-6.33	-20.53	-7.92	-13.29
190	60.94	95	11.06689	14.55743	14.44238	95	-5.53	-20.3	-7.86	-13.33
192	60.98	96	10.73244	14.05068	14.34944	96	-5.46	-19.93	-7.73	-13.35
194	61.06	97	10.39799	13.45946	14.33086	97	-5.31	-19.6	-7.65	-13.38
196	61.01	98	10.04682	12.81757	14.14498	98	-5.62	-19.21	-7.57	-13.34
198	60.88	99	9.628763	12.24324	13.92193	99	-6.07	-19.52	-7.55	-13.43
200	60.77	100	9.19398	11.95608	13.829	100	-8.79	-19.61	-7.73	-13.56
202	60.77	101	8.892977	11.98986	13.86617	101	-11.55	-19.8	-8.38	-13.62
204	60.79	102	8.77592	12.17568	13.77323	102	-10.52	-20.16	-8.86	-13.76

206	60.85	103	9.043478	12.53041	13.88476	103	-9.1	-20.69	-8.97	-13.9
208	60.92	104	9.578595	12.88514	13.86617	104	-7.61	-20.76	-9.02	-13.87
210	60.98	105	10.14716	13.12162	13.86617	105	-6.01	-20.9	-9.03	-13.93
212	61.06	106	10.74916	13.47635	13.99628	106	-4.91	-20.93	-9.02	-13.89
214	61.07	107	11.43478	13.96622	14.16357	107	-3.41	-20.8	-9.03	-13.82
216	60.91	108	12.05351	14.43919	14.25651	108	-3.3	-20.69	-9.05	-13.74
218	60.87	109	12.48829	14.87838	14.31227	109	-3.43	-20.6	-9.04	-13.65
220	60.87	110	12.80602	15.30068	14.44238	110	-3.55	-20.54	-8.99	-13.64
222	60.89	111	13.04013	15.62162	14.47955	111	-3.27	-20.25	-8.86	-13.64
224	60.96	112	13.15719	15.875	14.51673	112	-4.27	-20.05	-8.74	-13.68
226	61.00	113	13.29097	16.16216	14.49814	113	-4.11	-19.72	-8.66	-13.66
228	61.07	114	13.3913	16.24662	14.51673	114	-4.25	-19.39	-8.58	-13.65
230	61.14	115	13.42475	16.11149	14.42379	115	-5	-19.36	-8.56	-13.75
232	61.00	116	13.42475	16.0777	14.38662	116	-11.67	-19.99	-8.76	-13.96
234	60.94	117	13.47492	16.09459	14.36803	117	-11.6	-20.33	-9.22	-14.08
236	60.96	118	13.6087	16.11149	14.42379	118	-11.85	-20.51	-9.8	-14.12
238	60.96	119	13.74247	16.16216	14.47955	119	-13.27	-20.8	-10.36	-14.08
240	61.01	120	13.94314	16.24662	14.53532	120	-11.59	-21.17	-10.67	-14.13
242	61.05	121	14.17726	16.36486	14.60967	121	-10.53	-21.35	-10.69	-14.16
244	61.13	122	14.39465	16.41554	14.72119	122	-10.21	-21.71	-10.67	-14.15
246	61.09	123	14.59532	16.46622	14.8513	123	-8.18	-22.23	-10.57	-14.29
248	60.97	124	14.76254	16.53378	14.90706	124	-6.62	-22.15	-10.44	-14.34
250	60.98	125	14.96321	16.58446	14.92565	125	-5.77	-21.98	-10.35	-14.27
252	60.99	126	15.09699	16.56757	15.07435	126	-5.21	-21.72	-10.25	-14.14
254	61.04	127	15.23077	16.65203	15.11152	127	-4.48	-21.47	-10.17	-14.04
256	61.07	128	15.36455	16.77027	15.13011	128	-3.89	-21.25	-10.06	-13.99
258	61.14	129	15.41472	16.87162	15.09294	129	-3.86	-20.91	-9.96	-13.95
260	61.22	130	15.46488	16.97297	15.22305	130	-4.93	-20.77	-9.82	-13.96
262	61.10	131	15.56522	17.05743	15.22305	131	-4.96	-20.44	-9.68	-13.88
264	61.00	132	15.56522	17.09122	15.18587	132	-4.07	-20.04	-9.57	-13.81
266	61.00	133	15.38127	16.90541	15.16729	133	-4.82	-19.67	-9.47	-13.78
268	61.04	134	15.06355	16.60135	15.13011	134	-4.9	-19.3	-9.37	-13.72
270	61.09	135	14.51171	15.89189	14.92565	135	-4.45	-18.93	-9.28	-13.68
272	61.13	136	13.7592	15.09797	14.75836	136	-6.68	-19.13	-9.35	-13.88
274	61.21	137	13.0903	14.70946	14.64684	137	-11.03	-20.02	-9.78	-14.14
276	61.28	138	12.70569	14.64189	14.7026	138	-10.76	-20.62	-10.36	-14.34
278	61.12	139	12.65552	14.81081	14.64684	139	-9.57	-20.85	-10.79	-14.4
280	61.06	140	12.95652	15.0473	14.57249	140	-8.26	-21.34	-10.97	-14.39
282	61.05	141	13.35786	15.25	14.73978	141	-7.93	-21.46	-10.95	-14.42
284	61.06	142	13.80936	15.40203	14.79554	142	-6.03	-21.35	-10.85	-14.35
286	61.12	143	14.2107	15.58784	14.86989	143	-5.13	-21.19	-10.77	-14.24
288	61.19	144	14.59532	15.82432	14.94424	144	-4.33	-21.06	-10.67	-14.12
290	61.26	145	14.97993	16.12838	15.03717	145	-4.42	-20.91	-10.59	-14.03
292	61.34	146	15.26421	16.44932	15.1487	146	-4.13	-20.66	-10.5	-13.95
294	61.18	147	15.49833	16.71959	15.1487	147	-3.38	-20.34	-10.4	-13.88

296	61.12	148	15.699	16.95608	15.1487	148	-4.35	-20.14	-10.27	-13.85
298	61.10	149	15.86622	17.17568	15.24164	149	-4.91	-19.84	-10.16	-13.75
300	61.12	150	15.94983	17.31081	15.13011	150	-4.32	-19.5	-10.05	-13.64
302	61.14	151	15.89967	17.24324	15.13011	151	-4.52	-19.23	-9.97	-13.65
304	61.22	152	15.73244	17.14189	15.16729	152	-8.03	-19.45	-10.09	-13.9
306	61.31	153	15.46488	17.07432	15.1487	153	-14.22	-20.19	-10.52	-14.16
308	61.29	154	15.1806	16.97297	15.16729	154	-14.45	-21.11	-11	-14.35
310	61.13	155	15.0301	16.97297	15.22305	155	-11.65	-21.3	-11.43	-14.43
312	61.11	156	15.04682	16.9223	15.27881	156	-10.42	-21.71	-11.67	-14.43
314	61.11	157	15.21405	16.9223	15.39033	157	-8.17	-22.22	-11.58	-14.52
316	61.13	158	15.49833	16.93919	15.53903	158	-6.59	-22.17	-11.46	-14.55
318	61.18	159	15.78261	16.9223	15.52045	159	-6.01	-21.97	-11.35	-14.42
320	61.29	160	16	16.97297	15.46468	160	-5.09	-21.75	-11.29	-14.31
322	61.37	161	16.11706	17.04054	15.57621	161	-4.11	-21.52	-11.19	-14.23
324	61.22	162	16.25084	17.15878	15.57621	162	-4.02	-21.24	-11.1	-14.1
326	61.15	163	16.51839	17.24324	15.5948	163	-3.84	-20.9	-11.02	-13.99
328	61.10	164	16.68562	17.37838	15.5948	164	-4.08	-20.58	-10.91	-13.93
330	61.10	165	16.75251	17.5473	15.70632	165	-4.99	-20.34	-10.77	-13.87
332	61.14	166	16.75251	17.66554	15.66914	166	-6.04	-20.04	-10.65	-13.76
334	61.23	167	16.71906	17.61486	15.5948	167	-5.24	-19.63	-10.55	-13.64
336	61.33	168	16.60201	17.56419	15.61338	168	-4.64	-19.35	-10.5	-13.65
338	61.36	169	16.43478	17.37838	15.65056	169	-10.25	-19.72	-10.73	-14.04
340	61.24	170	16.31773	17.20946	15.5948	170	-14.38	-20.78	-11.23	-14.26
342	61.17	171	16.20067	17.24324	15.5948	171	-14.17	-21.5	-11.64	-14.5
344	61.13	172	16.18395	17.27703	15.72491	172	-12.74	-21.91	-11.97	-14.72
346	61.15	173	16.28428	17.29392	15.76208	173	-11.09	-22.21	-12.29	-14.69
348	61.19	174	16.43478	17.27703	15.79926	174	-10.18	-22.58	-12.28	-14.68
350	61.29	175	16.53512	17.20946	15.94796	175	-8.42	-22.79	-12.17	-14.69
352	61.39	176	16.65217	17.27703	15.92937	176	-6.77	-22.69	-12.06	-14.59
354	61.34	177	16.75251	17.24324	16.00372	177	-5.96	-22.39	-11.96	-14.47
356	61.24	178	16.85284	17.34459	16.05948	178	-5.43	-22.28	-11.84	-14.46
358	61.20	179	16.95318	17.41216	16.11524	179	-5.09	-21.92	-11.76	-14.36
360	61.17	180	17.00334	17.5473	16.05948	180	-4.12	-21.56	-11.65	-14.26
362	61.17	181	17.15385	17.68243	16.07807	181	-3.92	-21.18	-11.54	-14.18
364	61.25	182	17.25418	17.78378	16.11524	182	-4.71	-20.86	-11.42	-14.11
366	61.36	183	17.25418	17.83446	16.05948	183	-5.33	-20.51	-11.31	-14.05
368	61.45	184	17.23746	17.81757	16.11524	184	-5.47	-20.13	-11.19	-13.93
370	61.56	185	17.15385	17.80068	16.13383	185	-5.05	-19.68	-11.07	-13.87
372	61.64	186	16.95318	17.56419	16.00372	186	-5.18	-19.26	-10.97	-13.81
374	61.72	187	16.61873	17.02365	15.89219	187	-5.56	-18.8	-10.86	-13.77
376	61.78	188	16.01672	16.16216	15.74349	188	-5.17	-18.33	-10.75	-13.66
378	61.85	189	15.23077	15.18243	15.5948	189	-5.59	-18.02	-10.71	-13.69
380	61.91	190	14.61204	14.54054	15.4461	190	-10.85	-18.58	-11.03	-14.09
382	61.98	191	14.42809	14.67568	15.2974	191	-13.38	-19.42	-11.79	-14.26
384	62.05	192	14.5786	15.08108	15.39033	192	-13.04	-20.13	-12.6	-14.38

386	62.09	193	14.91304	15.46959	15.48327	193	-13.32	-21.15	-13.11	-14.6
388	62.12	194	15.28094	15.79054	15.40892	194	-11.71	-21.3	-13.42	-14.65
390	62.18	195	15.58194	16.01014	15.48327	195	-8.88	-21.67	-13.38	-14.61
392	62.22	196	15.81605	16.19595	15.57621	196	-7.34	-21.92	-13.16	-14.65
394	62.07	197	16.05017	16.26351	15.70632	197	-6.88	-21.91	-12.9	-14.64
396	61.60	198	16.23411	16.43243	15.81784	198	-6.25	-21.8	-12.72	-14.55
398	61.60	199	16.43478	16.68581	15.96654	199	-4.81	-21.66	-12.59	-14.5
400	61.42	200	16.60201	16.90541	15.91078	200	-4.4	-21.48	-12.47	-14.43
402	61.15	201	16.76923	17.14189	15.91078	201	-4.13	-21.22	-12.35	-14.35
404	61.17	202	16.90301	17.37838	15.92937	202	-4.66	-20.91	-12.23	-14.18
406	61.14	203	17.02007	17.58108	16.0223	203	-5.09	-20.63	-12.12	-14.11
408	61.18	204	17.13712	17.68243	16.05948	204	-5.91	-20.36	-11.99	-14.07
410	61.23	205	17.22074	17.80068	16.09665	205	-4.93	-19.99	-11.95	-13.98
412	61.27	206	17.25418	17.86824	16.04089	206	-4.2	-19.57	-11.82	-13.92
414	61.32	207	17.1204	17.75	16.04089	207	-4.85	-19.21	-11.69	-13.9
416	61.43	208	16.90301	17.61486	15.98513	208	-5.5	-19.15	-11.72	-13.99
418	61.51	209	16.83612	17.66554	16.0223	209	-12.81	-19.57	-11.94	-14.39
420	61.57	210	16.86957	17.85135	16.05948	210	-16.37	-20.65	-12.43	-14.62
422	61.60	211	16.86957	17.9527	16.09665	211	-12.77	-21.05	-13.19	-14.61
424	61.58	212	16.85284	17.90203	16.24535	212	-11.22	-21.7	-13.43	-14.7
426	61.57	213	16.95318	17.80068	16.24535	213	-8.88	-22.11	-13.2	-14.79
428	61.56	214	17.05351	17.80068	16.3197	214	-6.79	-21.95	-13.03	-14.81
430	61.59	215	17.10368	17.83446	16.44981	215	-6.49	-22.07	-12.92	-14.65
432	61.62	216	17.22074	17.88514	16.44981	216	-5.88	-21.78	-12.83	-14.6
434	61.65	217	17.28763	17.91892	16.4684	217	-4.77	-21.51	-12.74	-14.53
436	61.67	218	17.38796	17.96959	16.48699	218	-4.19	-21.23	-12.64	-14.43
438	61.68	219	17.47157	18.10473	16.54275	219	-5.21	-20.99	-12.53	-14.33
440	61.69	220	17.48829	18.20608	16.41264	220	-7.03	-20.79	-12.41	-14.23
442	61.71	221	17.50502	18.30743	16.4684	221	-5.66	-20.4	-12.29	-14.07
444	61.71	222	17.53846	18.25676	16.50558	222	-4.8	-19.98	-12.18	-13.96
446	61.72	223	17.48829	18.23986	16.48699	223	-5.28	-19.55	-12.05	-13.86
448	61.74	224	17.37124	18.00338	16.48699	224	-5.67	-19.15	-11.94	-13.8
450	61.75	225	17.15385	17.68243	16.4684	225	-8.92	-19.21	-12.06	-14.08
452	61.76	226	16.98662	17.66554	16.39405	226	-15.57	-20.28	-12.47	-14.54
454	61.77	227	16.98662	17.73311	16.52416	227	-12.7	-20.96	-13.17	-14.63
456	61.76	228	16.93645	17.75	16.54275	228	-10.97	-21.49	-13.42	-14.82
458	61.76	229	16.98662	17.69932	16.54275	229	-9.03	-21.69	-13.35	-14.88
460	61.76	230	17.10368	17.73311	16.65428	230	-7.08	-21.61	-13.26	-14.82
462	61.76	231	17.22074	17.83446	16.72862	231	-6.7	-21.69	-13.17	-14.69
464	61.77	232	17.25418	17.91892	16.74721	232	-5.87	-21.56	-13.09	-14.64
466	61.77	233	17.33779	17.98649	16.72862	233	-5.09	-21.31	-13.01	-14.55
468	61.77	234	17.40468	18.10473	16.65428	234	-5.26	-21.05	-12.92	-14.41
470	61.77	235	17.50502	18.18919	16.63569	235	-6.55	-20.87	-12.8	-14.31
472	61.77	236	17.58863	18.29054	16.71004	236	-7.33	-20.66	-12.69	-14.2
474	61.78	237	17.6388	18.39189	16.67286	237	-6.15	-20.26	-12.6	-14.08

476	61.78	238	17.65552	18.39189	16.69145	238	-5.4	-19.84	-12.49	-14.03
478	61.79	239	17.60535	18.27365	16.69145	239	-5.88	-19.45	-12.38	-13.95
480	61.79	240	17.4214	18.08784	16.72862	240	-9.31	-19.46	-12.43	-14.16
482	61.79	241	17.2709	17.9527	16.7658	241	-16.35	-20.44	-12.84	-14.62
484	61.79	242	17.28763	18.00338	16.78439	242	-13.58	-21.22	-13.57	-14.66
486	61.79	243	17.22074	17.91892	16.78439	243	-11.1	-21.82	-13.91	-14.86
488	61.79	244	17.23746	17.88514	16.74721	244	-8.92	-21.71	-13.76	-14.86
490	61.80	245	17.32107	17.91892	16.84015	245	-7.6	-21.77	-13.63	-14.82
492	61.80	246	17.40468	17.98649	16.97026	246	-7.44	-21.83	-13.56	-14.73
494	61.80	247	17.43813	18.00338	17.00743	247	-5.89	-21.65	-13.46	-14.71
496	61.80	248	17.50502	17.98649	17.04461	248	-5.3	-21.43	-13.36	-14.63
498	61.80	249	17.57191	18.02027	16.9145	249	-6.03	-21.23	-13.28	-14.47
500	61.81	250	17.65552	18.1723	16.98885	250	-6.9	-21	-13.16	-14.38
502	61.81	251	17.67224	18.34122	17.00743	251	-7.73	-20.73	-13.05	-14.21
504	61.81	252	17.67224	18.39189	17.00743	252	-6.69	-20.35	-12.94	-14.07
506	61.81	253	17.70569	18.45946	17.02602	253	-5.94	-19.91	-12.81	-13.96
508	61.81	254	17.6388	18.375	16.97026	254	-6.05	-19.45	-12.67	-13.86
510	61.81	255	17.45485	18.18919	16.87732	255	-6.79	-19.12	-12.59	-13.86
512	61.81	256	17.22074	17.9527	16.93309	256	-13.73	-19.67	-12.84	-14.4
514	61.81	257	17.1204	17.85135	16.93309	257	-17.08	-20.77	-13.36	-14.68
516	61.81	258	17.15385	17.83446	16.98885	258	-13.64	-21.34	-14.18	-14.7
518	61.82	259	17.17057	17.83446	16.97026	259	-11.62	-21.84	-14.41	-14.93
		260	17.23746	17.83446	17.00743	260	-9.97	-21.9	-14.21	-15
		261	17.30435	17.91892	17.13755	261	-8.32	-21.9	-14.07	-14.97
		262	17.35452	17.90203	17.10037	262	-7.84	-21.96	-13.95	-14.92
		263	17.4214	17.86824	17.13755	263	-6.04	-21.77	-13.82	-14.9
		264	17.52174	17.93581	17.11896	264	-6.01	-21.55	-13.71	-14.77
		265	17.57191	18.00338	17.13755	265	-6.82	-21.35	-13.6	-14.66
		266	17.6388	18.10473	17.10037	266	-7.23	-21.08	-13.46	-14.57
		267	17.72241	18.22297	17.13755	267	-6.78	-20.74	-13.34	-14.45
		268	17.73913	18.34122	17.11896	268	-5.89	-20.33	-13.23	-14.3
		269	17.72241	18.375	17.11896	269	-6.27	-19.9	-13.11	-14.14
		270	17.65552	18.25676	17.00743	270	-6.56	-19.43	-12.96	-13.97
		271	17.47157	18.00338	17.0632	271	-8.98	-19.31	-12.97	-14.16
		272	17.28763	17.85135	16.98885	272	-16.3	-20.32	-13.37	-14.74
		273	17.2709	17.86824	16.93309	273	-15.81	-21.15	-14.05	-14.91
		274	17.25418	17.81757	17.10037	274	-12.64	-21.78	-14.73	-14.99
		275	17.2709	17.80068	17.10037	275	-11.17	-21.99	-14.56	-15.15
		276	17.32107	17.88514	17.19331	276	-9.33	-21.91	-14.41	-15.1
		277	17.37124	17.90203	17.30483	277	-9.04	-21.98	-14.3	-14.98
		278	17.45485	17.93581	17.24907	278	-8.27	-21.92	-14.21	-14.83
		279	17.52174	17.91892	17.28625	279	-7.34	-21.79	-14.09	-14.77
		280	17.53846	18.03716	17.23048	280	-7.2	-21.55	-13.97	-14.68
		281	17.67224	18.15541	17.30483	281	-8.02	-21.32	-13.85	-14.61
		282	17.73913	18.27365	17.2119	282	-8.05	-21.02	-13.72	-14.52

283	17.77258	18.27365	17.17472	283	-7.81	-20.67	-13.58	-14.37
284	17.73913	18.34122	17.32342	284	-7.66	-20.27	-13.45	-14.21
285	17.68896	18.35811	17.28625	285	-7.21	-19.81	-13.32	-14.05
286	17.55518	18.1723	17.23048	286	-7.49	-19.34	-13.19	-13.91
287	17.37124	17.81757	17.24907	287	-10.07	-19.3	-13.23	-14.14
288	17.20401	17.56419	17.19331	288	-16.91	-20.33	-13.65	-14.72
289	17.08696	17.66554	17.19331	289	-14.95	-21.13	-14.45	-14.77
290	17.08696	17.71622	17.30483	290	-12.4	-21.55	-14.79	-14.93
291	17.10368	17.61486	17.26766	291	-10.66	-21.57	-14.67	-14.96
292	17.22074	17.71622	17.30483	292	-9.04	-21.62	-14.54	-14.9
293	17.2709	17.78378	17.45353	293	-8.68	-21.71	-14.45	-14.82
294	17.30435	17.83446	17.45353	294	-7.83	-21.63	-14.36	-14.76
295	17.45485	17.90203	17.50929	295	-8.01	-21.48	-14.26	-14.65
296	17.55518	18.05405	17.45353	296	-9.1	-21.26	-14.12	-14.54
297	17.60535	18.15541	17.43494	297	-8.88	-21.01	-14	-14.45
298	17.65552	18.25676	17.39777	298	-8.5	-20.7	-13.88	-14.32
299	17.70569	18.30743	17.45353	299	-8.11	-20.33	-13.75	-14.19
300	17.72241	18.40878	17.52788	300	-7.9	-19.9	-13.61	-14.04
301	17.67224	18.30743	17.41636	301	-7.98	-19.44	-13.47	-13.9
302	17.50502	18.07095	17.37918	302	-11.06	-19.46	-13.51	-14.23
303	17.33779	17.83446	17.32342	303	-17.41	-20.43	-13.95	-14.85
304	17.30435	17.86824	17.32342	304	-15.83	-21.42	-14.67	-14.9
305	17.30435	17.85135	17.45353	305	-12.91	-21.76	-15.1	-15.02
306	17.35452	17.93581	17.54647	306	-11.6	-21.79	-14.96	-15.08
307	17.45485	17.9527	17.63941	307	-10.01	-21.84	-14.84	-15.01
308	17.47157	17.91892	17.54647	308	-9.42	-21.91	-14.73	-14.91
309	17.48829	17.98649	17.54647	309	-8.46	-21.85	-14.61	-14.85
310	17.57191	18.07095	17.62082	310	-9.67	-21.72	-14.49	-14.79
311	17.65552	18.13851	17.67658	311	-10.13	-21.51	-14.38	-14.71
312	17.73913	18.18919	17.62082	312	-9.94	-21.23	-14.25	-14.59
313	17.77258	18.25676	17.60223	313	-9.06	-20.91	-14.13	-14.47
314	17.85619	18.23986	17.65799	314	-8.65	-20.51	-14.01	-14.33
315	17.85619	18.34122	17.71375	315	-8.27	-20.07	-13.87	-14.17
316	17.7893	18.29054	17.71375	316	-8.27	-19.61	-13.72	-14.01
317	17.55518	18.07095	17.75093	317	-11.7	-19.63	-13.76	-14.31
318	17.33779	17.90203	17.71375	318	-17.62	-20.66	-14.21	-14.91
319	17.32107	17.81757	17.67658	319	-15.27	-21.6	-15.07	-14.93
320	17.32107	17.75	17.62082	320	-12.95	-21.76	-15.37	-15.11
321	17.37124	17.78378	17.67658	321	-11.61	-21.86	-15.2	-15.11
322	17.4214	17.86824	17.7881	322	-10.4	-21.96	-15.08	-15.05
323	17.53846	17.93581	17.76952	323	-9.85	-22.03	-14.98	-14.93
324	17.6388	17.91892	17.7881	324	-10.9	-22.04	-14.85	-14.89
325	17.67224	17.96959	17.7881	325	-11.19	-21.9	-14.72	-14.79
326	17.70569	18.07095	17.75093	326	-11	-21.66	-14.62	-14.68
327	17.72241	18.18919	17.82528	327	-10.42	-21.39	-14.49	-14.55

328	17.77258	18.27365	17.86245	328	-9.61	-21.03	-14.35	-14.42
329	17.80602	18.29054	17.82528	329	-9.16	-20.61	-14.22	-14.28
330	17.83946	18.25676	17.80669	330	-8.82	-20.13	-14.06	-14.13
331	17.77258	18.20608	17.80669	331	-8.83	-19.63	-13.92	-13.98
332	17.60535	17.96959	17.80669	332	-9.71	-19.27	-13.82	-13.99
333	17.2709	17.58108	17.71375	333	-16.06	-20.02	-14.09	-14.68
334	17.00334	17.42905	17.62082	334	-16.99	-21.03	-14.69	-14.83
335	16.95318	17.46284	17.67658	335	-12.87	-21.61	-15.36	-15
336	16.98662	17.44595	17.69517	336	-11.45	-21.6	-15.33	-15.12
337	17.07023	17.51351	17.75093	337	-10.46	-21.78	-15.22	-15.05
338	17.20401	17.59797	17.76952	338	-10.04	-21.9	-15.11	-14.96
339	17.30435	17.61486	17.75093	339	-11.29	-21.96	-15	-14.93
340	17.37124	17.69932	17.7881	340	-11.08	-21.91	-14.89	-14.88
341	17.45485	17.78378	17.80669	341	-11.16	-21.72	-14.81	-14.77
342	17.57191	17.98649	17.86245	342	-10.92	-21.48	-14.71	-14.66
343	17.6388	18.12162	17.91822	343	-10.21	-21.16	-14.59	-14.56
344	17.68896	18.1723	17.97398	344	-9.56	-20.77	-14.48	-14.44
345	17.72241	18.25676	17.9368	345	-9.27	-20.31	-14.34	-14.27
346	17.70569	18.18919	17.99257	346	-9.16	-19.84	-14.19	-14.1
347	17.55518	17.93581	17.9368	347	-9.36	-19.36	-14.04	-13.97
348	17.33779	17.73311	17.82528	348	-13.91	-19.63	-14.15	-14.49
349	17.13712	17.5473	17.80669	349	-17.69	-20.86	-14.66	-14.93
350	17.08696	17.44595	17.86245	350	-13.5	-21.55	-15.47	-15.06
351	17.03679	17.51351	17.88104	351	-12.08	-21.61	-15.6	-15.2
352	17.07023	17.56419	17.89963	352	-10.5	-21.75	-15.46	-15.13
353	17.18729	17.59797	17.95539	353	-10.18	-21.91	-15.33	-15.05
354	17.2709	17.71622	17.9368	354	-10.7	-21.93	-15.22	-14.98
355	17.40468	17.85135	17.91822	355	-12.12	-21.9	-15.11	-14.93
356	17.45485	17.86824	17.95539	356	-11.92	-21.74	-15.01	-14.84
357	17.50502	17.9527	18.01115	357	-11.25	-21.5	-14.91	-14.7
358	17.55518	18.03716	17.95539	358	-10.74	-21.16	-14.76	-14.55
359	17.68896	18.13851	17.91822	359	-10.28	-20.76	-14.63	-14.39
360	17.75585	18.1723	17.97398	360	-9.81	-20.29	-14.48	-14.21
361	17.68896	18.1723	18.02974	361	-9.33	-19.81	-14.32	-14.04
362	17.52174	18.10473	17.97398	362	-9.25	-19.32	-14.17	-13.92
363	17.30435	17.76689	17.88104	363	-8.94	-18.8	-14	-13.81
364	16.85284	17.00676	17.76952	364	-8.41	-18.28	-13.83	-13.7
365	16.11706	15.875	17.58364	365	-7.92	-17.74	-13.67	-13.59
366	15.11371	14.32095	17.37918	366	-7.56	-17.22	-13.51	-13.48
367	13.67559	12.41216	17.02602	367	-7.16	-16.72	-13.34	-13.39
368	12.08696	10.19932	16.6171	368	-6.94	-16.21	-13.17	-13.28
369	10.54849	7.834459	16.22677	369	-6.73	-15.72	-13.02	-13.18
370	8.809365	5.486486	15.79926	370	-6.55	-15.27	-12.88	-13.09
371	7.153846	3.138514	15.22305	371	-6.31	-14.86	-12.75	-13.04
372	5.598662	1.010135	14.60967	372	-6.09	-14.45	-12.63	-13.02

373	3.943144	0.881757	14.10781	373	-5.88	-14.06	-12.51	-12.98
374	2.38796	2.486486	13.5316	374	-5.74	-13.7	-12.4	-12.93
375	0.816054	3.956081	12.99257	375	-5.52	-13.37	-12.3	-12.87
376	0.755853	5.425676	12.52788	376	-5.49	-13.06	-12.22	-12.83
377	2.294314	6.675676	11.97026	377	-5.36	-12.76	-12.14	-12.81
378	3.765886	7.739865	11.4684	378	-5.21	-12.48	-12.06	-12.77
379	5.170569	8.5	11.11524	379	-5.13	-12.2	-11.97	-12.72
380	6.575251	9.141892	10.76208	380	-5	-11.95	-11.9	-12.7
381	7.862876	9.885135	10.37175	381	-4.84	-11.7	-11.82	-12.65
382	8.916388	10.47635	10.05576	382	-4.72	-11.45	-11.75	-12.61
383	9.869565	10.91554	9.628253	383	-4.65	-11.21	-11.68	-12.58
384	10.72241	11.2027	9.126394	384	-4.57	-10.96	-11.61	-12.53
385	11.3913	11.4223	8.791822	385	-4.32	-10.73	-11.54	-12.54
386	12.01003	11.55743	8.438662	386	-4.09	-10.49	-11.48	-12.54
387	12.61204	11.72635	8.011152	387	-3.88	-10.26	-11.43	-12.53
388	13.31438	11.8277	7.695167	388	-3.59	-10.02	-11.36	-12.5
389	14	11.94595	7.286245	389	-2.87	-9.78	-11.29	-12.48
390	14.56856	12.01351	6.858736	390	-2.51	-9.56	-11.22	-12.47
391	15.1204	12.14865	6.505576	391	-2.18	-9.34	-11.15	-12.46
392	15.62207	12.23311	6.115242	392	-2.04	-9.13	-11.08	-12.46
393	16.15719	12.35135	5.724907	393	-2.08	-8.93	-11.01	-12.45
394	16.70903	12.48649	5.464684	394	-1.98	-8.73	-10.95	-12.43
395	17.27759	12.50338	5.167286	395	-1.84	-8.56	-10.89	-12.43
396	17.79599	12.65541	4.832714	396	-1.79	-8.38	-10.83	-12.42
397	18.23077	12.77365	4.591078	397	-1.86	-8.22	-10.78	-12.41
398	18.64883	12.77365	4.330855	398	-1.79	-8.05	-10.72	-12.4
399	19.01672	12.73986	4.01487	399	-1.73	-7.9	-10.67	-12.38
400	19.35117	12.63851	3.791822	400	-1.71	-7.75	-10.62	-12.4
401	19.56856	12.38514	3.568773	401	-1.7	-7.6	-10.57	-12.4
402	19.73579	12.09797	3.271375	402	-1.68	-7.46	-10.52	-12.38
403	19.95318	11.92905	3.122677	403	-1.64	-7.32	-10.47	-12.37
404	20.05351	11.76014	2.936803	404	-1.62	-7.2	-10.43	-12.34
405	20.07023	11.59122	2.750929	405	-1.62	-7.07	-10.38	-12.34
406	20.1204	11.33784	2.546468	406	-1.54	-6.95	-10.34	-12.36
407	20.17057	10.89865	2.249071	407	-1.56	-6.83	-10.29	-12.33
408	20.03679	10.44257	2.007435	408	-1.58	-6.71	-10.25	-12.32
409	19.71906	9.969595	1.784387	409	-2.46	-6.61	-10.22	-12.28
410	19.31773	9.547297	1.728625	410	-2.57	-6.51	-10.18	-12.41
411	18.94983	9.665541	1.765799	411	-2.25	-6.41	-10.11	-12.46
412	18.74916	9.800676	1.654275	412	-2.02	-6.32	-10.04	-12.48
413	18.66555	9.361486	1.375465	413	-1.84	-6.22	-9.96	-12.48
414	18.74916	8.347973	1.189591	414	-1.71	-6.13	-9.9	-12.49
415	18.68227	7.148649	1.115242	415	-1.61	-6.04	-9.85	-12.48
416	18.44816	6.371622	1.152416	416	-2.08	-5.96	-9.76	-12.49
417	18.08027	6.084459	0.98513	417	-2.3	-5.89	-9.73	-12.39

418	17.31104	5.611486	0.855019	418	-2.12	-5.82	-9.73	-12.36
419	16.32441	4.766892	0.910781	419	-1.4	-5.74	-9.7	-12.41
420	15.58863	3.820946	1.078067	420	-2.37	-5.65	-9.66	-12.39
421	14.91973	3.381757	1.05948	421	-1.83	-5.57	-9.63	-12.2
422	14.10033	3.128378	0.873606	422	-1.07	-5.5	-9.63	-12.16
423	13.28094	2.60473	0.892193	423	-0.77	-5.42	-9.64	-12.23
424	12.51171	1.97973	1.152416	424	-0.76	-5.34	-9.63	-12.27
425	11.77592	1.304054	1.263941	425	-0.77	-5.26	-9.62	-12.28
426	11.04013	0.543919	1.356877	426	-0.76	-5.18	-9.6	-12.29
427	10.28763	0.131757	1.486989	427	-0.8	-5.1	-9.57	-12.3
428	9.585284	0.773649	1.654275	428	-0.77	-5.03	-9.56	-12.32
429	8.882943	1.364865	1.784387	429	-0.71	-4.96	-9.53	-12.31
430	8.230769	1.888514	1.97026	430	-0.65	-4.89	-9.5	-12.31
431	7.561873	2.429054	2.174721	431	-0.66	-4.83	-9.48	-12.31
432	6.859532	3.003378	2.267658	432	-0.57	-4.77	-9.46	-12.32
433	6.257525	3.459459	2.434944	433	-0.62	-4.72	-9.44	-12.34
434	5.672241	3.932432	2.583643	434	-0.6	-4.66	-9.41	-12.35
435	4.986622	4.472973	2.750929	435	-0.63	-4.62	-9.39	-12.36
436	4.334448	4.962838	2.95539	436	-0.66	-4.58	-9.38	-12.38
437	3.715719	5.452703	3.141264	437	-0.72	-4.53	-9.35	-12.37
438	3.09699	5.925676	3.345725	438	-0.88	-4.49	-9.33	-12.35
439	2.494983	6.398649	3.550186	439	-1.73	-4.44	-9.31	-12.31
440	1.809365	6.939189	3.791822	440	-1.62	-4.4	-9.29	-12.27
441	1.040134	7.513514	3.996283	441	-1.03	-4.36	-9.26	-12.25
442	0.270903	8.02027	4.29368	442	-1.23	-4.31	-9.24	-12.24
443	0.381271	8.493243	4.535316	443	-1.54	-4.28	-9.21	-12.24
444	0.882943	8.915541	4.702602	444	-1.61	-4.25	-9.2	-12.24
445	1.384615	9.304054	4.869888	445	-1.62	-4.2	-9.17	-12.24
446	1.919732	9.658784	5.092937	446	-1.65	-4.16	-9.14	-12.24
447	2.371237	9.962838	5.35316	447	-1.65	-4.13	-9.12	-12.23
448	2.722408	10.19932	5.539033	448	-1.66	-4.09	-9.1	-12.21
449	3.056856	10.46959	5.780669	449	-1.68	-4.05	-9.08	-12.22
450	3.408027	10.72297	5.98513	450	-1.71	-4.02	-9.06	-12.22
451	3.70903	10.92568	6.208178	451	-1.72	-3.98	-9.04	-12.21
452	3.993311	11.16216	6.486989	452	-1.74	-3.95	-9.03	-12.18
453	4.277592	11.36486	6.728625	453	-1.74	-3.91	-9.01	-12.17
454	4.461538	11.51689	6.933086	454	-1.76	-3.88	-8.99	-12.15
455	4.61204	11.71959	7.100372	455	-1.77	-3.85	-8.98	-12.15
456	4.812709	11.90541	7.342007	456	-1.76	-3.81	-8.96	-12.13
457	4.996656	11.97297	7.583643	457	-1.75	-3.77	-8.94	-12.11
458	5.180602	12.10811	7.825279	458	-1.72	-3.72	-8.91	-12.11
459	5.381271	12.26014	7.992565	459	-1.71	-3.7	-8.91	-12.1
460	5.548495	12.37838	8.02974	460	-1.7	-3.66	-8.89	-12.09
461	5.615385	12.53041	8.159851	461	-1.68	-3.63	-8.88	-12.06
462	5.799331	12.71622	8.420074	462	-1.66	-3.59	-8.86	-12.08

463	5.949833	12.83446	8.643123	463	-1.65	-3.55	-8.85	-12.08
464	6.083612	12.93581	8.810409	464	-1.64	-3.52	-8.84	-12.05
465	6.217391	13.03716	8.921933	465	-1.62	-3.49	-8.83	-12.06
466	6.317726	13.10473	9.070632	466	-1.59	-3.45	-8.81	-12.04
467	6.351171	13.13851	9.275093	467	-1.56	-3.41	-8.79	-12.02
468	6.434783	13.20608	9.36803	468	-1.53	-3.36	-8.78	-12.01
469	6.568562	13.35811	9.516729	469	-1.49	-3.32	-8.76	-12.02
470	6.719064	13.51014	9.702602	470	-1.45	-3.28	-8.75	-12.05
471	6.886288	13.59459	9.814126	471	-1.42	-3.25	-8.74	-12.08
472	7.003344	13.56081	9.925651	472	-1.38	-3.21	-8.73	-12.1
473	7.137124	13.66216	10.13011	473	-1.34	-3.18	-8.72	-12.12
474	7.237458	13.74662	10.20446	474	-1.28	-3.14	-8.71	-12.13
475	7.270903	13.74662	10.31599	475	-1.22	-3.1	-8.7	-12.12
476	7.32107	13.83108	10.50186	476	-1.15	-3.07	-8.69	-12.09
477	7.38796	13.86486	10.63197	477	-1.08	-3.03	-8.67	-12.05
478	7.454849	13.86486	10.79926	478	-1.03	-3	-8.66	-12.03
479	7.605351	13.98311	11.00372	479	-0.96	-2.97	-8.64	-12.02
480	7.688963	14.10135	11.171	480	-0.88	-2.94	-8.63	-12.01
481	7.755853	14.15203	11.28253	481	-0.82	-2.9	-8.62	-11.99
482	7.822742	14.25338	11.41264	482	-0.76	-2.87	-8.6	-11.97
483	7.889632	14.32095	11.56134	483	-0.66	-2.83	-8.58	-11.95
484	7.956522	14.33784	11.65428	484	-0.59	-2.8	-8.57	-11.97
485	8.023411	14.35473	11.84015	485	-0.52	-2.76	-8.56	-11.99
486	8.090301	14.38851	11.97026	486	-0.43	-2.73	-8.55	-12.02
487	8.140468	14.40541	12.10037	487	-0.39	-2.7	-8.54	-12.04
488	8.190635	14.43919	12.19331	488	-0.34	-2.67	-8.53	-12.05
489	8.274247	14.45608	12.28625	489	-0.28	-2.64	-8.52	-12.04
490	8.341137	14.52365	12.37918	490	-0.21	-2.61	-8.51	-12.01
491	8.391304	14.54054	12.52788	491	-0.15	-2.58	-8.5	-11.98
492	8.441472	14.57432	12.62082	492	-0.11	-2.55	-8.49	-12
493	8.491639	14.64189	12.69517	493	-0.03	-2.52	-8.47	-12.01
494	8.508361	14.67568	12.88104	494	0.02	-2.48	-8.46	-12.03
495	8.591973	14.64189	13.06691	495	0.06	-2.46	-8.46	-12.04
496	8.692308	14.625	13.14126	496	0.1	-2.42	-8.44	-12.04
497	8.725753	14.67568	13.25279	497	0.16	-2.38	-8.42	-12.02
498	8.759197	14.77703	13.25279	498	0.2	-2.36	-8.41	-11.99
499	8.826087	14.84459	13.32714	499	0.25	-2.32	-8.4	-11.96
500	8.842809	14.87838	13.42007	500	0.28	-2.3	-8.39	-11.96
501	8.842809	14.86149	13.47584	501	0.33	-2.27	-8.38	-11.93
502	8.876254	14.86149	13.58736	502	0.37	-2.24	-8.37	-11.92
503	8.959866	14.87838	13.62454	503	0.42	-2.21	-8.35	-11.91
504	8.993311	14.92905	13.77323	504	0.45	-2.18	-8.33	-11.91
505	8.993311	14.94595	13.94052	505	0.48	-2.16	-8.32	-11.91
506	9.026756	14.94595	13.94052	506	0.49	-2.14	-8.3	-11.89
507	9.043478	14.97973	14.10781	507	0.51	-2.11	-8.29	-11.88

508	9.110368	14.99662	14.21933	508	0.54	-2.09	-8.27	-11.88
509	9.143813	15.03041	14.31227	509	0.55	-2.08	-8.27	-11.9
510	9.177258	15.03041	14.38662	510	0.57	-2.05	-8.25	-11.88

Adorp_exp_3

Experiment type: Adsorption experiment. The regolith type is JSC Mars-1 in this experiment, with a thickness of 2 mm. The initial weight was 78.13 g. The humidity buffer was LiCl which has a RH of 11.31 at 0 degrees Celsius. Temperature around the sample was as close to -15 degrees Celsius as possible, cooled with liquid nitrogen and chiller system.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= humidity buffer 3= atmosphere 4= sample

Mass Min.	Mass	RH Min	Ch02	Ch03	Ch04	T Min	Ch01	Ch02	Ch03	Ch04
0	79.53	0	2.270903	27.46959	38.829	0	20.73	-12.18	-1.46	-10.38
2	80.14	1	1.585284	26.2027	31.71004	1	7.57	-12.09	-1.2	-9.63
4	79.58	2	0.749164	25.34122	18.02974	2	1.75	-13.54	-1.67	-9.9
6	79.41	3	0.73913	25.13851	9.962825	3	-1.44	-14.53	-2.19	-9.85
8	79.33	4	2.478261	23.51689	4.516729	4	-1.54	-14.58	-2.19	-9.97
10	79.34	5	3.899666	19.98649	0.501859	5	-1.37	-14.66	-2.05	-9.84
12	79.46	6	4.785953	15.62838	2.657993	6	-1.31	-14.87	-1.9	-9.71
14	79.36	7	5.020067	11.28716	5.167286	7	-1.12	-14.98	-1.66	-9.69
16	79.33	8	4.217391	7.554054	7.249071	8	-1.17	-14.95	-1.54	-9.72
18	79.32	9	2.578595	5.155405	9.01487	9	-1.56	-15.02	-1.39	-9.63
20	79.34	10	0.571906	3.043919	10.46468	10	-2.39	-14.83	-1.25	-9.57
22	79.36	11	1.150502	0.290541	11.65428	11	-3.32	-14.65	-1.18	-9.51
24	79.37	12	2.404682	2.445946	12.89963	12	-5.31	-14.64	-1.18	-9.55
26	79.39	13	3.575251	5.317568	14.47955	13	-6.35	-14.88	-1.26	-9.51
28	79.4	14	5.013378	8.02027	15.85502	14	-6.71	-15.51	-1.49	-9.54
30	79.39	15	6.351171	10.0473	16.74721	15	-6.71	-16.02	-2.11	-9.53
32	79.36	16	7.605351	11.71959	17.23048	16	-6.98	-16.58	-2.22	-9.5
34	79.36	17	9.010033	13.23986	17.49071	17	-7.88	-17.12	-2.16	-9.47
36	79.35	18	10.34783	14.48986	17.56506	18	-8.13	-17.46	-2.09	-9.45
38	79.36	19	11.33445	15.41892	17.43494	19	-7.61	-17.7	-2.03	-9.41
40	79.37	20	11.95318	16.12838	17.2119	20	-7.29	-17.69	-2.01	-9.36
42	79.37	21	12.47157	16.63514	17.19331	21	-6.94	-17.51	-1.99	-9.31

44	79.38	22	12.85619	17.10811	17.2119	22	-6.21	-17.32	-1.95	-9.29
46	79.4	23	13.15719	17.49662	17.13755	23	-5.05	-17.04	-1.87	-9.26
48	79.39	24	13.3913	17.68243	16.93309	24	-4.72	-16.68	-1.78	-9.25
50	79.37	25	13.50836	17.75	16.72862	25	-5.07	-16.32	-1.76	-9.23
52	79.37	26	13.50836	17.66554	16.48699	26	-5.52	-15.81	-1.76	-9.27
54	79.37	27	13.37458	17.46284	16.18959	27	-5.59	-15.3	-1.82	-9.29
56	79.38	28	12.88963	17.19257	15.68773	28	-5.17	-14.87	-1.92	-9.3
58	79.37	29	11.98662	16.9223	14.94424	29	-4.79	-14.4	-1.81	-9.27
60	79.37	30	11.36789	16.83784	14.57249	30	-5.39	-14.14	-1.64	-9.34
62	79.38	31	11.43478	16.97297	15.4461	31	-6.81	-14.6	-1.71	-9.44
64	79.39	32	12.10368	17.125	16.85874	32	-7.57	-14.95	-1.89	-9.59
66	79.39	33	13.05686	17.29392	17.82528	33	-7.78	-15.1	-1.94	-9.85
68	79.36	34	13.7592	17.46284	18.43866	34	-8.41	-15.5	-2.03	-9.98
70	79.38	35	14.16054	17.58108	18.71747	35	-8.89	-16.29	-2.53	-9.96
72	79.37	36	14.42809	17.66554	18.64312	36	-9.28	-16.63	-3.09	-9.89
74	79.37	37	14.66221	17.73311	18.56877	37	-9.24	-16.69	-3.06	-9.86
76	79.37	38	14.96321	17.80068	18.28996	38	-8.62	-17.08	-3	-9.8
78	79.37	39	15.28094	17.9527	17.91822	39	-8.06	-17.4	-3.12	-9.73
80	79.38	40	15.51505	18.05405	17.62082	40	-7.22	-17.38	-3.13	-9.65
82	79.38	41	15.699	18.1723	17.36059	41	-7.13	-17.13	-3.06	-9.61
84	79.4	42	15.83278	18.34122	17.11896	42	-6.17	-17.02	-3.04	-9.6
86	79.37	43	15.98328	18.49324	16.89591	43	-5.23	-16.83	-3.01	-9.58
88	79.38	44	16.11706	18.5777	16.63569	44	-4.65	-16.54	-2.97	-9.56
90	79.38	45	16.11706	18.49324	16.15242	45	-4.77	-16.12	-2.86	-9.53
92	79.38	46	16.03344	18.35811	15.70632	46	-4.82	-15.67	-2.8	-9.51
94	79.38	47	15.88294	18.15541	15.24164	47	-5.58	-15.23	-2.85	-9.51
96	79.38	48	15.58194	17.91892	14.42379	48	-5.9	-14.75	-2.81	-9.5
98	79.38	49	15.13043	17.80068	13.86617	49	-5.94	-14.53	-2.72	-9.55
100	79.39	50	14.74582	17.81757	14.77695	50	-7.16	-14.77	-2.76	-9.68
102	79.4	51	14.76254	17.86824	16.33829	51	-7.79	-15.21	-3.01	-9.96
104	79.42	52	15.08027	17.88514	17.36059	52	-8.17	-15.77	-3.23	-10.18
106	79.38	53	15.43144	17.9527	17.69517	53	-8.93	-16.27	-3.49	-10.27
108	79.4	54	15.68227	18.00338	17.84387	54	-8.99	-16.58	-3.67	-10.5
110	79.4	55	15.93311	18.05405	17.73234	55	-8.03	-17.15	-3.77	-10.72
112	79.4	56	16.20067	18.13851	17.24907	56	-7.22	-17.66	-3.91	-11
114	79.4	57	16.40134	18.20608	16.7658	57	-6.63	-17.72	-4.01	-11.31
116	79.39	58	16.55184	18.32432	16.41264	58	-6.22	-17.47	-4.04	-11.57
118	79.4	59	16.70234	18.45946	16.11524	59	-5.93	-17.19	-4.04	-11.78
120	79.4	60	16.83612	18.56081	15.96654	60	-5.5	-16.95	-4.03	-11.94
122	79.41	61	16.93645	18.59459	15.66914	61	-4.91	-16.71	-3.98	-12.04
124	79.43	62	17.00334	18.71284	15.35316	62	-4.67	-16.38	-3.91	-12.11
126	79.42	63	16.9699	18.69595	14.96283	63	-5.19	-15.99	-3.83	-12.14
128	79.4	64	16.70234	18.54392	14.62825	64	-6.09	-15.65	-3.82	-12.15
130	79.42	65	16.28428	18.34122	13.95911	65	-6.36	-15.16	-3.88	-12.14
132	79.41	66	15.78261	18.00338	12.84387	66	-6.2	-14.78	-3.84	-12.12

134	79.41	67	15.43144	17.78378	11.89591	67	-6.43	-14.56	-3.8	-12.1
136	79.41	68	15.46488	17.90203	12.63941	68	-7.63	-14.8	-3.93	-12.23
138	79.41	69	15.76589	18.02027	14.42379	69	-8.25	-15.36	-4.24	-12.6
140	79.41	70	16.10033	18.13851	15.79926	70	-8.71	-16.03	-4.58	-12.84
142	79.41	71	16.35117	18.18919	16.35688	71	-9.42	-16.56	-4.91	-12.84
144	79.43	72	16.55184	18.27365	16.48699	72	-8.73	-17	-5.13	-12.8
146	79.45	73	16.65217	18.32432	16.24535	73	-8.5	-17.59	-5.25	-12.73
148	79.44	74	16.78595	18.375	15.87361	74	-7.98	-18.05	-5.39	-12.65
150	79.42	75	16.98662	18.45946	15.48327	75	-7.36	-18.17	-5.44	-12.6
152	79.43	76	17.10368	18.59459	15.1487	76	-6.71	-17.99	-5.45	-12.58
154	79.43	77	17.13712	18.64527	14.94424	77	-6.25	-17.74	-5.44	-12.57
156	79.42	78	17.22074	18.69595	14.8513	78	-6.34	-17.46	-5.38	-12.57
158	79.42	79	17.32107	18.74662	14.53532	79	-5.27	-17.14	-5.32	-12.54
160	79.43	80	17.37124	18.78041	14.12639	80	-5.06	-16.86	-5.19	-12.54
162	79.43	81	17.35452	18.78041	13.84758	81	-5.05	-16.48	-5.05	-12.5
164	79.45	82	17.2709	18.72973	13.36431	82	-5.31	-16.01	-4.95	-12.46
166	79.46	83	17.02007	18.54392	12.69517	83	-5.8	-15.6	-4.84	-12.44
168	79.47	84	16.58528	18.23986	11.6171	84	-6.37	-15.18	-4.75	-12.41
170	79.49	85	15.89967	17.73311	10.01859	85	-6.23	-14.78	-4.77	-12.38
172	79.5	86	15.36455	17.36149	8.884758	86	-6.02	-14.51	-4.74	-12.38
174	79.46	87	15.44816	17.46284	10.35316	87	-6.88	-14.83	-4.97	-12.63
176	79.46	88	15.79933	17.61486	12.73234	88	-8.1	-15.59	-5.44	-13.02
178	79.45	89	16.13378	17.78378	14.12639	89	-9.01	-16.41	-5.79	-13.18
180	79.46	90	16.36789	17.96959	14.64684	90	-9.23	-17.01	-6.16	-13.09
182	79.45	91	16.56856	18.07095	14.5539	91	-8.54	-17.57	-6.36	-12.98
184	79.44	92	16.78595	18.1723	14.20074	92	-8.04	-17.93	-6.52	-12.91
186	79.44	93	16.95318	18.27365	13.75465	93	-7.36	-18.24	-6.63	-12.85
188	79.41	94	17.07023	18.39189	13.49442	94	-6.82	-18.32	-6.63	-12.8
190	79.41	95	17.22074	18.47635	13.25279	95	-6.49	-18.27	-6.61	-12.78
192	79.42	96	17.35452	18.59459	12.99257	96	-6.08	-18.11	-6.56	-12.75
194	79.42	97	17.45485	18.71284	12.69517	97	-5.58	-17.83	-6.48	-12.72
196	79.44	98	17.48829	18.76351	12.47212	98	-5.14	-17.53	-6.36	-12.69
198	79.43	99	17.52174	18.84797	12.2119	99	-5	-17.22	-6.25	-12.64
200	79.44	100	17.48829	18.78041	11.9145	100	-5.18	-16.84	-6.1	-12.57
202	79.43	101	17.43813	18.76351	11.43123	101	-5.16	-16.42	-5.97	-12.51
204	79.43	102	17.23746	18.51014	10.63197	102	-5.52	-15.92	-5.89	-12.48
206	79.43	103	16.88629	18.07095	9.535316	103	-6.04	-15.5	-5.79	-12.44
208	79.42	104	16.35117	17.5473	8.02974	104	-6.42	-15.04	-5.66	-12.4
210	79.43	105	15.66555	16.9223	5.873606	105	-6.09	-14.62	-5.62	-12.34
212	79.44	106	15.19732	16.58446	4.275093	106	-6.32	-14.39	-5.63	-12.32
214	79.45	107	15.3311	16.9223	6.635688	107	-6.95	-14.74	-5.83	-12.52
216	79.46	108	15.68227	17.3277	9.888476	108	-7.91	-15.52	-6.36	-13
218	79.44	109	16.01672	17.59797	11.39405	109	-9.13	-16.49	-6.73	-13.23
220	79.45	110	16.35117	17.76689	11.89591	110	-8.99	-17.08	-7.01	-13.14
222	79.45	111	16.60201	17.90203	11.67286	111	-8.09	-17.4	-7.19	-13.06

224	79.44	112	16.75251	18.07095	11.35688	112	-7.89	-17.75	-7.38	-13.01
226	79.45	113	16.91973	18.22297	10.85502	113	-7.84	-18.05	-7.52	-12.97
228	79.45	114	17.10368	18.35811	10.63197	114	-7.2	-18.16	-7.55	-12.92
230	79.45	115	17.30435	18.45946	10.53903	115	-6.7	-18.13	-7.52	-12.86
232	79.45	116	17.4214	18.54392	10.39033	116	-6.7	-18.12	-7.46	-12.81
234	79.46	117	17.48829	18.62838	10.24164	117	-6.15	-18.03	-7.37	-12.79
236	79.46	118	17.58863	18.74662	10	118	-5.26	-17.86	-7.26	-12.78
238	79.5	119	17.6388	18.7973	9.72119	119	-4.96	-17.64	-7.14	-12.78
240	79.48	120	17.62207	18.84797	9.628253	120	-4.93	-17.36	-7	-12.75
242	79.48	121	17.57191	18.74662	9.479554	121	-5.11	-16.95	-6.89	-12.71
244	79.46	122	17.40468	18.59459	9.070632	122	-5.77	-16.5	-6.84	-12.67
246	79.45	123	17.13712	18.34122	8.234201	123	-6.14	-16.06	-6.77	-12.63
248	79.45	124	16.73579	17.88514	6.877323	124	-6.43	-15.62	-6.64	-12.6
250	79.44	125	16.06689	17.19257	4.702602	125	-6.43	-15.2	-6.63	-12.56
252	79.45	126	15.1806	16.24662	1.784387	126	-6.3	-14.8	-6.59	-12.54
254	79.45	127	14.69565	15.80743	0.98513	127	-6.13	-14.58	-6.61	-12.59
256	79.46	128	14.96321	16.28041	3.977695	128	-6.51	-15.07	-6.91	-12.98
258	79.51	129	15.36455	16.80405	6.208178	129	-7.99	-15.94	-7.55	-13.44
260	79.48	130	15.76589	17.17568	6.542751	130	-9.22	-16.94	-7.88	-13.49
262	79.49	131	16.11706	17.42905	6.784387	131	-8.41	-17.31	-8.08	-13.36
264	79.47	132	16.41806	17.64865	6.858736	132	-7.48	-17.66	-8.19	-13.29
266	79.46	133	16.68562	17.91892	7.081784	133	-6.87	-17.92	-8.31	-13.22
268	79.47	134	16.86957	18.13851	7.267658	134	-6.55	-18.16	-8.38	-13.16
270	79.46	135	17.02007	18.25676	7.434944	135	-6	-18.36	-8.4	-13.12
272	79.45	136	17.22074	18.35811	7.862454	136	-5.93	-18.47	-8.36	-13.08
274	79.45	137	17.40468	18.49324	8.197026	137	-5.82	-18.51	-8.29	-13.04
276	79.47	138	17.53846	18.62838	8.513011	138	-5.23	-18.37	-8.21	-13
278	79.5	139	17.58863	18.69595	8.736059	139	-4.94	-18.12	-8.09	-12.94
280	79.53	140	17.65552	18.72973	8.921933	140	-4.66	-17.76	-7.97	-12.85
282	79.52	141	17.68896	18.74662	8.996283	141	-4.68	-17.5	-7.88	-12.81
284	79.51	142	17.57191	18.66216	8.866171	142	-4.9	-17.05	-7.75	-12.76
286	79.5	143	17.38796	18.49324	8.234201	143	-5.41	-16.61	-7.7	-12.74
288	79.49	144	17.02007	18.10473	7.081784	144	-5.77	-16.2	-7.56	-12.72
290	79.5	145	16.55184	17.51351	5.390335	145	-5.85	-15.78	-7.39	-12.7
292	79.48	146	15.98328	16.71959	3.066914	146	-6.2	-15.3	-7.26	-12.67
294	79.48	147	15.14716	15.60473	0.260223	147	-6.72	-14.87	-7.18	-12.63
296	79.47	148	14.39465	14.72635	3.271375	148	-6.33	-14.49	-7.12	-12.55
298	79.48	149	14.31104	14.86149	2.695167	149	-6.07	-14.39	-7.24	-12.63
300	79.52	150	14.7291	15.6723	0.762082	150	-6.91	-14.78	-7.49	-12.88
302	79.56	151	15.24749	16.46622	3.791822	151	-8.61	-15.73	-7.95	-13.41
304	79.53	152	15.79933	16.98986	5.334572	152	-7.42	-16.44	-8.41	-13.53
306	79.54	153	16.23411	17.36149	6.152416	153	-6.42	-16.88	-8.7	-13.41
308	79.53	154	16.51839	17.68243	6.542751	154	-6.41	-17.19	-8.81	-13.34
310	79.52	155	16.75251	17.88514	6.524164	155	-6.29	-17.44	-8.8	-13.27
312	79.52	156	16.98662	18.02027	6.840149	156	-6.32	-17.62	-8.85	-13.22

314	79.51	157	17.18729	18.18919	7.286245	157	-5.95	-17.78	-8.93	-13.18
316	79.5	158	17.30435	18.34122	7.67658	158	-5.72	-17.84	-8.94	-13.14
318	79.5	159	17.40468	18.44257	8.085502	159	-5.22	-17.78	-8.94	-13.11
320	79.51	160	17.52174	18.51014	8.438662	160	-5.74	-17.71	-8.86	-13.09
322	79.53	161	17.62207	18.56081	8.698885	161	-6.6	-17.58	-8.73	-13.05
324	79.57	162	17.60535	18.59459	8.921933	162	-6.96	-17.4	-8.62	-13
326	79.59	163	17.53846	18.52703	9.070632	163	-6.97	-17.24	-8.56	-12.97
328	79.63	164	17.33779	18.375	9.052045	164	-7.88	-16.97	-8.52	-12.94
330	79.61	165	17.02007	18.08784	8.605948	165	-8.24	-16.61	-8.45	-12.84
332	79.61	166	16.56856	17.66554	7.60223	166	-7.62	-16.24	-8.4	-12.74
334	79.6	167	15.94983	16.95608	5.910781	167	-7.26	-15.89	-8.32	-12.65
336	79.6	168	15.24749	15.92568	3.30855	168	-6.77	-15.54	-8.21	-12.63
338	79.59	169	14.47826	14.65878	0.185874	169	-6.58	-15.13	-8.07	-12.63
340	79.58	170	13.65886	13.27365	4.72119	170	-6.52	-14.69	-7.93	-12.61
342	79.59	171	12.68896	11.80405	10.39033	171	-6.4	-14.24	-7.8	-12.56
344	79.58	172	11.56856	10.06419	16.37546	172	-6.18	-13.8	-7.69	-12.53
346	79.56	173	10.83278	9.439189	19.46097	173	-5.95	-13.4	-7.62	-12.53
348	79.56	174	11.46823	11.16216	13.84758	174	-5.21	-13.51	-7.83	-12.73
350	79.57	175	12.80602	13.12162	7.416357	175	-4.01	-14.49	-8.47	-13.23
352	79.61	176	13.92642	14.28716	4.033457	176	-3.76	-15.22	-9.7	-13.5
354	79.65	177	14.64548	15.06419	2.267658	177	-6.18	-16.11	-10.31	-13.64
356	79.62	178	15.16388	15.68919	1.245353	178	-5.97	-16.88	-10.24	-13.62
358	79.62	179	15.63211	16.19595	0.557621	179	-5.44	-17.37	-10.19	-13.66
360	79.61	180	16.01672	16.63514	0	180	-5.3	-17.64	-10.15	-13.64
362	79.59	181	16.301	16.97297	0.557621	181	-5.27	-17.82	-10.16	-13.58
364	79.59	182	16.51839	17.26014	1.171004	182	-5.29	-17.99	-10.21	-13.5
366	79.57	183	16.73579	17.49662	1.933086	183	-5.05	-18.09	-10.13	-13.46
		184	16.90301	17.64865	2.657993	184	-4.69	-18.04	-10.02	-13.41
		185	16.98662	17.86824	3.345725	185	-4.38	-17.9	-9.82	-13.39
		186	17.08696	18.07095	3.921933	186	-4.22	-17.74	-9.68	-13.34
		187	17.22074	18.1723	4.479554	187	-4.16	-17.49	-9.55	-13.27
		188	17.35452	18.20608	4.944238	188	-3.94	-17.14	-9.41	-13.26
		189	17.38796	18.20608	5.148699	189	-3.66	-16.76	-9.29	-13.23
		190	17.25418	18.12162	4.981413	190	-3.59	-16.33	-9.18	-13.17
		191	17.07023	17.90203	4.052045	191	-3.71	-15.89	-9.08	-13.05
		192	16.76923	17.47973	2.026022	192	-3.46	-15.42	-8.97	-12.97
		193	16.25084	16.66892	0.966543	193	-3.42	-14.93	-8.86	-12.88
		194	15.86622	16.04392	2.081784	194	-3.45	-14.53	-8.78	-12.83
		195	15.86622	16.2973	1.003717	195	-3.59	-14.9	-8.96	-13.2
		196	16.1505	16.7027	4.516729	196	-4.24	-15.74	-9.82	-13.63
		197	16.40134	17.07432	6.245353	197	-5.77	-16.42	-10.72	-13.87
		198	16.61873	17.37838	6.914498	198	-5.32	-16.93	-10.6	-14.03
		199	16.78595	17.61486	7.286245	199	-5.24	-17.23	-10.46	-14.01
		200	16.93645	17.78378	7.657993	200	-5.19	-17.52	-10.5	-13.99
		201	17.1204	17.96959	8.066914	201	-5.09	-17.73	-10.54	-13.95

202	17.30435	18.12162	8.494424	202	-4.87	-17.83	-10.49	-13.9
203	17.47157	18.22297	8.884758	203	-4.56	-17.86	-10.4	-13.85
204	17.52174	18.34122	9.237918	204	-4	-17.77	-10.31	-13.82
205	17.60535	18.47635	9.628253	205	-3.75	-17.59	-10.18	-13.77
206	17.70569	18.52703	10.03717	206	-3.88	-17.36	-10.05	-13.72
207	17.73913	18.54392	10.18587	207	-4.04	-17.13	-9.94	-13.62
208	17.70569	18.5777	10.22305	208	-4.33	-16.83	-9.84	-13.51
209	17.65552	18.52703	9.869888	209	-4.57	-16.51	-9.74	-13.37
210	17.53846	18.32432	8.866171	210	-4.68	-16.14	-9.64	-13.26
211	17.22074	17.90203	6.877323	211	-4.72	-15.72	-9.52	-13.11
212	16.71906	17.27703	3.977695	212	-4.28	-15.29	-9.42	-13.01
213	16.11706	16.19595	0.297398	213	-3.99	-14.85	-9.31	-12.91
214	15.48161	15.23311	2.434944	214	-4.59	-14.43	-9.21	-12.81
215	15.26421	15.36824	0.855019	215	-4.25	-14.34	-9.27	-12.96
216	15.54849	16.01014	2.936803	216	-4.2	-14.95	-9.51	-13.38
217	15.94983	16.56757	5.743494	217	-4.48	-15.83	-10.27	-13.83
218	16.26756	16.98986	7.267658	218	-6.25	-16.52	-11.18	-14.04
219	16.50167	17.26014	7.936803	219	-5.39	-17.19	-11.1	-14.15
220	16.70234	17.47973	8.289963	220	-5.5	-17.62	-11	-14.07
221	16.88629	17.66554	8.624535	221	-5.54	-17.94	-11.01	-14.02
222	17.05351	17.83446	8.921933	222	-5.43	-18.14	-11.05	-14.01
223	17.18729	18.02027	9.256506	223	-5.09	-18.25	-11	-13.91
224	17.37124	18.1723	9.609665	224	-4.77	-18.29	-10.9	-13.83
225	17.47157	18.29054	10.07435	225	-4.43	-18.23	-10.79	-13.79
226	17.57191	18.40878	10.5948	226	-4.27	-18.08	-10.7	-13.76
227	17.65552	18.51014	10.96654	227	-4.15	-17.88	-10.58	-13.71
228	17.67224	18.56081	11.05948	228	-4.4	-17.65	-10.48	-13.71
229	17.67224	18.51014	11.09665	229	-4.61	-17.39	-10.37	-13.63
230	17.60535	18.47635	10.89219	230	-4.68	-17.06	-10.27	-13.51
231	17.45485	18.34122	10.07435	231	-4.85	-16.68	-10.16	-13.38
232	17.22074	18.03716	8.3829	232	-4.75	-16.27	-10.07	-13.29
233	16.86957	17.46284	5.743494	233	-4.26	-15.84	-9.96	-13.19
234	16.33445	16.53378	2.174721	234	-4.21	-15.38	-9.85	-13.09
235	15.46488	15.13176	2.304833	235	-4.88	-14.93	-9.75	-12.99
236	14.51171	13.91554	5.910781	236	-4.91	-14.46	-9.65	-12.91
237	14.17726	14.01689	3.568773	237	-3.83	-14.48	-9.73	-13.13
238	14.5786	14.91216	0.892193	238	-4.28	-15.44	-10.31	-13.67
239	15.04682	15.70608	3.289963	239	-6.67	-16.35	-11.27	-13.85
240	15.49833	16.33108	4.498141	240	-5.96	-17.07	-11.5	-13.91
241	15.91639	16.80405	5.167286	241	-5.85	-17.46	-11.51	-14
242	16.23411	17.17568	5.669145	242	-5.83	-17.81	-11.46	-13.99
243	16.53512	17.47973	6.263941	243	-5.88	-18	-11.45	-13.97
244	16.80268	17.78378	6.840149	244	-5.51	-18.14	-11.43	-13.94
245	17.02007	18.05405	7.472119	245	-5.01	-18.18	-11.35	-13.9
246	17.18729	18.22297	8.066914	246	-4.57	-18.12	-11.27	-13.82

247	17.30435	18.30743	8.550186	247	-4.21	-17.95	-11.16	-13.76
248	17.45485	18.40878	9.01487	248	-3.88	-17.7	-11.06	-13.7
249	17.57191	18.49324	9.330855	249	-3.76	-17.44	-10.96	-13.68
250	17.62207	18.49324	9.516729	250	-3.87	-17.12	-10.85	-13.55
251	17.58863	18.51014	9.312268	251	-3.85	-16.76	-10.74	-13.46
252	17.47157	18.34122	8.475836	252	-3.86	-16.36	-10.63	-13.37
253	17.23746	17.96959	6.542751	253	-3.59	-15.93	-10.52	-13.28
254	16.80268	17.34459	3.568773	254	-3.55	-15.47	-10.4	-13.17
255	16.13378	16.31419	0.371747	255	-3.78	-15.02	-10.29	-13.04
256	15.26421	15.21622	3.66171	256	-3.95	-14.55	-10.17	-12.86
257	14.84615	14.99662	1.710037	257	-3.7	-14.53	-10.2	-13.06
258	15.16388	15.63851	2.565056	258	-4.54	-15.42	-10.78	-13.71
259	15.56522	16.28041	5.018587	259	-6.32	-16.31	-12.09	-14.01
260	15.88294	16.7027	6.282528	260	-7.19	-17.2	-12.42	-14.05
261	16.16722	17.05743	6.914498	261	-6.21	-17.69	-12.24	-14.15
262	16.45151	17.34459	7.342007	262	-6.07	-17.94	-12.06	-14.17
263	16.73579	17.58108	7.713755	263	-6.05	-18.25	-12.01	-14.17
264	16.95318	17.88514	8.122677	264	-5.87	-18.36	-11.96	-14.12
265	17.08696	18.10473	8.587361	265	-5.39	-18.44	-11.89	-14.06
266	17.20401	18.22297	9.070632	266	-4.98	-18.4	-11.81	-13.98
267	17.33779	18.35811	9.572491	267	-4.62	-18.28	-11.7	-13.9
268	17.43813	18.47635	10.09294	268	-4.28	-18.08	-11.59	-13.83
269	17.52174	18.54392	10.42751	269	-3.8	-17.81	-11.48	-13.79
270	17.58863	18.5777	10.5948	270	-3.79	-17.52	-11.39	-13.75
271	17.58863	18.5777	10.46468	271	-3.96	-17.18	-11.28	-13.66
272	17.55518	18.44257	9.684015	272	-4.05	-16.81	-11.17	-13.57
273	17.40468	18.27365	8.178439	273	-4.03	-16.38	-11.06	-13.46
274	17.08696	17.80068	5.836431	274	-3.83	-15.95	-10.96	-13.34
275	16.51839	16.95608	2.32342	275	-4.07	-15.49	-10.84	-13.18
276	15.64883	15.62162	1.988848	276	-4.18	-15.04	-10.72	-13.04
277	14.49498	13.88176	6.524164	277	-4.26	-14.57	-10.58	-12.89
278	13.62542	13.12162	6.988848	278	-3.69	-14.21	-10.48	-12.86
279	13.70903	13.98311	2.100372	279	-4.38	-14.69	-10.74	-13.35
280	14.26087	14.99662	1.858736	280	-5.13	-15.68	-11.89	-13.87
281	14.77926	15.6723	3.903346	281	-6.69	-16.46	-13.23	-14.09
282	15.24749	16.21284	5.018587	282	-7.39	-17.47	-13.44	-14.09
283	15.66555	16.68581	5.724907	283	-6.7	-18.06	-13.07	-14.22
284	16	17.04054	6.282528	284	-6.49	-18.39	-12.78	-14.29
285	16.301	17.3277	6.6171	285	-6.32	-18.57	-12.6	-14.29
286	16.60201	17.58108	7.063197	286	-6.14	-18.73	-12.51	-14.26
287	16.83612	17.81757	7.657993	287	-5.99	-18.8	-12.41	-14.18
288	17.00334	18.02027	8.104089	288	-5.57	-18.78	-12.31	-14.08
289	17.17057	18.13851	8.568773	289	-5.05	-18.69	-12.22	-14.01
290	17.33779	18.30743	9.182156	290	-4.68	-18.5	-12.11	-13.94
291	17.48829	18.40878	9.72119	291	-4.41	-18.25	-11.98	-13.85

292	17.58863	18.42568	9.981413	292	-3.98	-17.94	-11.85	-13.74
293	17.57191	18.44257	9.851301	293	-4.22	-17.61	-11.73	-13.69
294	17.48829	18.375	9.312268	294	-4.17	-17.24	-11.61	-13.56
295	17.37124	18.15541	8.104089	295	-4.27	-16.83	-11.5	-13.46
296	17.07023	17.80068	5.873606	296	-3.97	-16.39	-11.38	-13.33
297	16.61873	17.17568	2.583643	297	-4.13	-15.93	-11.26	-13.19
298	15.88294	16.02703	1.375465	298	-4.46	-15.46	-11.14	-13.02
299	14.76254	14.47297	5.390335	299	-4.56	-14.99	-11.01	-12.85
300	13.50836	12.93581	7.95539	300	-4.3	-14.53	-10.89	-12.72
301	12.88963	12.83446	5.223048	301	-3.65	-14.36	-10.87	-12.88
302	13.35786	14.05068	0.037175	302	-4.63	-14.98	-11.23	-13.46
303	14.0602	14.99662	3.159851	303	-5.85	-16	-12.25	-13.93
304	14.66221	15.63851	4.851301	304	-7.71	-16.99	-12.94	-14.07
305	15.21405	16.21284	5.743494	305	-6.53	-17.53	-12.91	-14.18
306	15.68227	16.7027	6.282528	306	-6.42	-17.86	-12.78	-14.21
307	16.03344	17.02365	6.765799	307	-6.46	-18.22	-12.74	-14.24
308	16.33445	17.31081	7.211896	308	-6.3	-18.5	-12.71	-14.25
309	16.58528	17.59797	7.843866	309	-5.89	-18.64	-12.69	-14.23
310	16.78595	17.83446	8.513011	310	-5.46	-18.64	-12.6	-14.18
311	17.00334	18.08784	9.01487	311	-5.09	-18.56	-12.48	-14.1
312	17.18729	18.23986	9.553903	312	-4.73	-18.43	-12.38	-14.09
313	17.35452	18.34122	10.01859	313	-4.33	-18.21	-12.29	-14.01
314	17.45485	18.40878	10.2974	314	-4.01	-17.94	-12.18	-13.95
315	17.48829	18.39189	10.26022	315	-4.41	-17.63	-12.07	-13.83
316	17.38796	18.34122	9.851301	316	-4.31	-17.28	-11.96	-13.68
317	17.25418	18.13851	8.550186	317	-4.33	-16.89	-11.85	-13.55
318	17.03679	17.80068	6.189591	318	-4.1	-16.47	-11.74	-13.41
319	16.63545	17.15878	3.02974	319	-4.46	-16.02	-11.6	-13.22
320	15.88294	16.0777	0.594796	320	-4.65	-15.57	-11.48	-13.04
321	14.7291	14.57432	3.550186	321	-4.66	-15.11	-11.34	-12.88
322	13.45819	12.73311	5.483271	322	-4.18	-14.65	-11.2	-12.75
323	12.10368	10.62162	6.784387	323	-3.45	-14.2	-11.06	-12.66
324	10.51505	8.476351	7.862454	324	-3.37	-13.77	-10.93	-12.6
325	8.976589	6.364865	8.884758	325	-3.55	-13.35	-10.82	-12.52
326	7.889632	5.368243	8.866171	326	-3.4	-12.95	-10.7	-12.47
327	7.906355	7.564189	4.256506	327	-3.18	-12.99	-10.77	-12.75
328	8.959866	10.52027	1.524164	328	-4.49	-13.92	-11.36	-13.31
329	10.13043	12.37838	4.442379	329	-5.03	-14.93	-12.81	-13.63
330	11.11706	13.61149	6.301115	330	-5.25	-15.86	-13.99	-13.88
331	12.02007	14.40541	7.583643	331	-6	-16.85	-14.57	-14.07
332	12.83946	15.01351	8.420074	332	-7.64	-17.81	-14.5	-14.13
333	13.52508	15.62162	8.996283	333	-7.82	-18.61	-14.15	-14.03
334	14.16054	16.14527	9.386617	334	-7.13	-19.17	-14	-14.06
335	14.71237	16.58446	9.665428	335	-6.94	-19.55	-13.78	-14.09
336	15.21405	16.85473	9.907063	336	-6.7	-19.78	-13.62	-14.09

337	15.63211	17.10811	10.24164	337	-6.53	-19.89	-13.56	-14.11
338	15.93311	17.34459	10.66914	338	-6.41	-19.93	-13.41	-14.07
339	16.18395	17.5473	11.04089	339	-6.22	-19.88	-13.24	-14.02
340	16.45151	17.73311	11.28253	340	-5.77	-19.73	-13.11	-13.96
341	16.6689	17.96959	11.44981	341	-5.44	-19.49	-12.99	-13.91
342	16.80268	18.10473	11.56134	342	-5.25	-19.19	-12.84	-13.85
343	16.90301	18.13851	11.44981	343	-4.61	-18.85	-12.7	-13.78
344	16.9699	18.1723	11.18959	344	-4.31	-18.46	-12.56	-13.66
345	16.90301	18.1723	10.61338	345	-4.13	-18.03	-12.41	-13.56
346	16.78595	17.96959	8.977695	346	-4.2	-17.6	-12.28	-13.49
347	16.58528	17.58108	6.431227	347	-4.12	-17.14	-12.16	-13.42
348	16.18395	16.95608	3.141264	348	-4.09	-16.67	-12.03	-13.34
349	15.66555	16.09459	1.133829	349	-4.25	-16.17	-11.9	-13.2
350	14.84615	14.89527	4.795539	350	-4.13	-15.68	-11.76	-13.03
351	13.6087	13.25676	6.542751	351	-3.9	-15.19	-11.63	-12.88
352	12.32107	11.63514	7.174721	352	-3.39	-14.72	-11.5	-12.76
353	11.63545	11.56757	3.773234	353	-3.64	-14.59	-11.49	-12.98
354	11.93645	12.86824	1.133829	354	-5.37	-15.37	-12.37	-13.6
355	12.62207	14.08446	3.884758	355	-6.02	-16.33	-13.3	-13.84
356	13.42475	15.03041	5.260223	356	-6.37	-17.26	-13.4	-13.87
357	14.11037	15.72297	6.115242	357	-6.58	-17.78	-13.44	-14.04
358	14.71237	16.33108	6.858736	358	-6.57	-18.02	-13.32	-14.11
359	15.24749	16.87162	7.453532	359	-6.47	-18.27	-13.23	-14.14
360	15.68227	17.22635	8.159851	360	-6.58	-18.41	-13.18	-14.15
361	16.11706	17.49662	8.810409	361	-6.1	-18.54	-13.16	-14.12
362	16.46823	17.75	9.423792	362	-5.65	-18.52	-13.1	-14.08
363	16.68562	17.9527	9.925651	363	-5.27	-18.41	-13	-14.05
364	16.86957	18.07095	10.24164	364	-4.87	-18.19	-12.9	-13.96
365	17.02007	18.22297	10.55762	365	-4.1	-17.95	-12.8	-13.83
366	17.1204	18.29054	10.53903	366	-3.87	-17.68	-12.7	-13.76
367	17.1204	18.32432	10.05576	367	-3.76	-17.37	-12.59	-13.74
368	17.07023	18.25676	8.736059	368	-3.7	-16.99	-12.47	-13.64
369	16.91973	18.03716	6.598513	369	-4.06	-16.57	-12.35	-13.46
370	16.61873	17.56419	3.438662	370	-4.61	-16.13	-12.22	-13.24
371	16.1505	16.77027	0.297398	371	-4.42	-15.71	-12.09	-13.08
372	15.44816	15.58784	2.899628	372	-4.39	-15.29	-11.96	-12.93

Adsorp_exp_4

Experiment type: Adsorption controlled experiment. There was no regolith in this experiment, just an empty petri dish. The humidity buffer was LiCl which has a RH of 11.31 at 0 degrees

Celsius. Temperature around the sample was as close to -10 degrees Celsius as possible, cooled with liquid nitrogen and chiller system.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= humidity buffer 3= atmosphere 4= sample

Mass		RH				T				
Min.	Mass	Min.	Ch02	Ch03	Ch04	Min.	Ch01	Ch02	Ch03	Ch04
0	0.15	0	1.852843	0.942568	6.394052	0	-5.33	-4.21	-6.48	-9.6
2	0.1	1	1.351171	1.405405	5.855019	1	-8.84	-5.74	-7.86	-9.81
4	-0.84	2	1.083612	3.364865	6.505576	2	-8.37	-7.54	-8.94	-10.04
6	error	3	0.983278	4.412162	7.304833	3	-8.24	-8.81	-9.41	-10.21
8	0.05	4	0.58194	3.736486	7.453532	4	-9.22	-9.88	-9.22	-10.31
10	-1.15	5	0.331104	1.094595	7.249071	5	-10.09	-10.57	-9.04	-10.33
12	-1.17	6	0.732441	6.702703	7.230483	6	-11.02	-11.25	-8.94	-10.32
14	-1.16	7	1.886288	10.33446	7.639405	7	-11.62	-11.92	-8.9	-10.28
16	-1.13	8	3.993311	12.47973	8.66171	8	-11.1	-12.57	-8.89	-10.23
18	-1.12	9	6.585284	13.78041	10.24164	9	-8.43	-13.15	-9.08	-10.21
20	-1.12	10	8.675585	14.86149	11.89591	10	-6.66	-13.65	-9.62	-10.27
22	-1.12	11	10.19732	16.01014	13.25279	11	-6.42	-13.93	-10.03	-10.26
24	-1.13	12	11.40134	17.02365	14.23792	12	-6.36	-14.13	-10.33	-10.21
26	-1.13	13	12.22074	17.75	14.81413	13	-5.96	-14.43	-10.83	-10.14
28	-1.14	14	12.58863	18.27365	14.83271	14	-5.89	-14.52	-11.04	-10.06
30	-1.14	15	12.70569	18.67905	14.51673	15	-5.83	-14.62	-11.1	-9.99
32	-1.13	16	12.75585	18.88176	14.21933	16	-6.23	-14.58	-11.13	-9.96
34	-1.12	17	12.80602	18.78041	13.829	17	-6.77	-14.56	-10.85	-9.94
36	-1.11	18	12.82274	18.62838	13.51301	18	-6.56	-14.56	-10.48	-9.93
38	-1.1	19	12.85619	18.47635	13.32714	19	-6.05	-14.54	-10.2	-9.9
40	-1.1	20	12.9398	18.39189	13.14126	20	-6.52	-14.44	-9.82	-9.87
42	-1.17	21	13.04013	18.34122	13.12268	21	-6.84	-14.34	-9.55	-9.83
44	-1.17	22	13.22408	18.29054	13.17844	22	-6.79	-14.07	-9.34	-9.79
46	-1.18	23	13.45819	18.42568	13.30855	23	-6.75	-13.83	-9.18	-9.76
48	-1.18	24	13.6087	18.59459	13.45725	24	-6.46	-13.57	-8.99	-9.76
50	-1.18	25	13.65886	18.59459	13.69888	25	-6.18	-13.27	-8.79	-9.77
52	-1.18	26	13.69231	18.44257	13.86617	26	-5.97	-12.95	-8.58	-9.77
54	-1.17	27	13.77592	18.35811	14.07063	27	-5.87	-12.63	-8.38	-9.76
56	-1.16	28	13.82609	18.23986	14.29368	28	-5.76	-12.29	-8.18	-9.75
58	-1.23	29	13.89298	18.1723	14.51673	29	-5.55	-11.94	-8	-9.73
60	-1.22	30	14.02676	18.08784	14.72119	30	-5.33	-11.58	-7.83	-9.69
62	-1.24	31	14.14381	17.85135	14.8513	31	-5.09	-11.22	-7.69	-9.67
64	-1.25	32	14.19398	17.56419	14.96283	32	-4.79	-10.87	-7.56	-9.65

66	-1.23	33	14.24415	17.29392	15	33	-4.47	-10.5	-7.43	-9.62
68	-1.23	34	14.26087	16.88851	14.92565	34	-4.17	-10.12	-7.28	-9.58
70	-1.23	35	14.0602	16.34797	14.88848	35	-4	-9.78	-7.16	-9.57
72	-1.22	36	13.74247	15.70608	14.72119	36	-4.12	-9.88	-7.27	-9.72
74	-1.21	37	13.34114	15.06419	14.49814	37	-4.41	-10.16	-7.54	-9.93
76	-1.2	38	12.9398	14.47297	14.23792	38	-4.47	-10.44	-7.74	-10.17
78	-1.2	39	12.48829	13.94932	13.95911	39	-4.56	-10.72	-7.82	-10.19
80	-1.18	40	12.10368	14.15203	13.73606	40	-3.97	-11.07	-7.84	-10.13
82	-1.17	41	12.72241	15.62162	13.79182	41	-3.33	-11.28	-7.83	-10
84	-1.16	42	13.77592	17.125	14.07063	42	-4.15	-11.28	-7.81	-9.96
86	-1.15	43	14.56187	18.00338	14.42379	43	-7.06	-11.39	-7.78	-9.86
88	-1.23	44	15.11371	18.51014	14.75836	44	-6.75	-11.37	-7.76	-9.76
90	-1.23	45	15.51505	18.78041	15	45	-6.65	-11.29	-7.72	-9.71
92	-1.24	46	15.78261	18.89865	15.2974	46	-6.51	-11.12	-7.68	-9.68
94	-1.25	47	15.94983	18.94932	15.65056	47	-6.42	-10.9	-7.6	-9.65
96	-1.24	48	15.8495	19	15.96654	48	-5.93	-10.53	-7.5	-9.62
98	-1.24	49	15.699	18.96622	16.30112	49	-5.07	-10.27	-7.38	-9.6
100	-1.24	50	15.49833	18.89865	16.57993	50	-4.17	-9.92	-7.28	-9.59
102	-1.23	51	15.26421	18.81419	16.84015	51	-3.89	-9.58	-7.17	-9.57
104	-1.22	52	15.0301	18.54392	16.97026	52	-3.79	-9.24	-7.06	-9.56
106	-1.21	53	14.77926	18.00338	16.93309	53	-5.95	-9.28	-7.17	-9.73
108	-1.21	54	14.49498	17.3277	16.87732	54	-3.98	-10.07	-7.66	-10.14
110	-1.2	55	14.09365	16.39865	16.63569	55	-4.46	-11.13	-8.43	-10.41
112	-1.19	56	13.54181	15.28378	16.26394	56	-3.77	-11.94	-8.87	-10.4
114	-1.18	57	12.97324	14.57432	16.0223	57	-3.73	-12.5	-9.18	-10.41
116	-1.17	58	13.27425	15.60473	16.04089	58	-3.61	-12.91	-9.31	-10.4
118	-1.16	59	14.32776	17.05743	16.37546	59	-3.54	-13.29	-9.42	-10.45
120	-1.24	60	15.1806	17.90203	16.71004	60	-3.59	-13.6	-9.42	-10.67
122	-1.25	61	15.699	18.35811	16.89591	61	-3.26	-13.9	-9.27	-11.02
124	-1.25	62	16.08361	18.71284	17.02602	62	-4.18	-14.14	-9.14	-11.45
126	-1.25	63	16.38462	18.91554	17.15613	63	-4.46	-14.29	-9.09	-11.82
128	-1.25	64	16.61873	19.05068	17.23048	64	-4.84	-14.34	-9.07	-12.12
130	-1.23	65	16.80268	19.2027	17.32342	65	-4.71	-14.29	-9.03	-12.31
132	-1.22	66	16.9699	19.27027	17.30483	66	-4.29	-14.14	-9	-12.45
134	-1.21	67	17.13712	19.28716	17.45353	67	-5.34	-13.97	-8.92	-12.51
136	-1.21	68	17.25418	19.37162	17.49071	68	-8.14	-13.77	-8.8	-12.52
138	-1.2	69	17.28763	19.4223	17.60223	69	-8.4	-13.53	-8.7	-12.51
140	-1.19	70	17.35452	19.35473	17.73234	70	-8.53	-13.25	-8.62	-12.48
142	-1.18	71	17.35452	19.33784	17.84387	71	-7.64	-12.93	-8.54	-12.44
144	-1.17	72	17.30435	19.21959	17.7881	72	-7.42	-12.61	-8.47	-12.38
146	-1.16	73	17.20401	19.13514	17.84387	73	-7.4	-12.26	-8.39	-12.38
148	-1.24	74	17.00334	19.11824	17.89963	74	-7.06	-11.89	-8.3	-12.36
150	-1.26	75	16.76923	18.94932	17.86245	75	-7.27	-11.51	-8.21	-12.35
152	-1.26	76	16.56856	18.69595	17.91822	76	-6.83	-11.12	-8.11	-12.32
154	-1.25	77	16.33445	18.30743	17.86245	77	-5.78	-10.71	-8.02	-12.3

156	-1.23	78	15.98328	17.71622	17.75093	78	-5.5	-10.31	-7.94	-12.29
158	-1.22	79	15.39799	17.05743	17.49071	79	-5.11	-9.93	-7.86	-12.29
160	-1.21	80	14.74582	16.26351	17.11896	80	-4.74	-9.58	-7.78	-12.29
162	-1.2	81	14.11037	15.28378	16.74721	81	-4.46	-9.21	-7.69	-12.27
164	-1.2	82	13.3913	14.15203	16.24535	82	-4.3	-8.85	-7.62	-12.26
166	-1.19	83	12.65552	13.02027	15.5948	83	-4.21	-8.92	-7.78	-12.39
		84	11.88629	12.125	15.07435	84	-5.55	-9.74	-8.4	-12.74
		85	11.16722	11.39865	14.62825	85	-5.03	-10.72	-9.35	-12.92
		86	10.56522	10.84122	14.05204	86	-4.87	-11.48	-9.97	-12.94
		87	10.21405	11.17905	13.62454	87	-4.29	-12.03	-10.38	-12.9
		88	11.03344	13.29054	13.86617	88	-4.09	-12.59	-10.4	-12.89
		89	12.43813	15.28378	14.51673	89	-3.95	-13.01	-10.42	-12.89
		90	13.54181	16.34797	15.18587	90	-3.82	-13.09	-10.42	-12.87
		91	14.44482	17.02365	15.76208	91	-4.25	-13.24	-10.38	-12.87
		92	15.09699	17.59797	16.18959	92	-4.36	-13.46	-10.27	-12.9
		93	15.58194	18.05405	16.50558	93	-4.16	-13.62	-10.04	-12.89
		94	16.05017	18.34122	16.72862	94	-5.35	-13.66	-9.88	-12.91
		95	16.36789	18.56081	16.85874	95	-6.23	-13.81	-9.76	-12.93
		96	16.58528	18.76351	17.04461	96	-6.12	-13.9	-9.66	-12.94
		97	16.76923	18.91554	17.24907	97	-6.25	-13.86	-9.58	-12.91
		98	16.93645	19.01689	17.39777	98	-7.11	-13.76	-9.49	-12.84
		99	17.07023	19.08446	17.52788	99	-8.38	-13.64	-9.41	-12.78
		100	17.1204	19.16892	17.67658	100	-7.59	-13.53	-9.33	-12.74
		101	17.13712	19.21959	17.88104	101	-8.64	-13.44	-9.24	-12.71
		102	17.15385	19.15203	18.02974	102	-8.59	-13.19	-9.15	-12.67
		103	17.08696	19.01689	18.02974	103	-8.04	-12.85	-9.06	-12.62
		104	16.90301	18.94932	18.14126	104	-8.26	-12.59	-8.97	-12.55
		105	16.68562	18.86486	18.14126	105	-7.37	-12.35	-8.89	-12.49
		106	16.53512	18.83108	18.27138	106	-6.5	-12.02	-8.81	-12.42
		107	16.45151	18.76351	18.25279	107	-6.38	-11.68	-8.72	-12.37
		108	16.28428	18.54392	18.27138	108	-6.01	-11.3	-8.62	-12.3
		109	16.03344	18.20608	18.28996	109	-5.44	-10.92	-8.53	-12.3
		110	15.71572	17.76689	18.15985	110	-5.02	-10.51	-8.42	-12.3
		111	15.34783	17.17568	17.86245	111	-4.57	-10.12	-8.33	-12.27
		112	14.82943	16.31419	17.43494	112	-4.29	-9.75	-8.24	-12.25
		113	14.2107	15.46959	16.97026	113	-4	-9.36	-8.14	-12.23
		114	13.57525	14.74324	16.48699	114	-3.62	-9.09	-8.13	-12.32
		115	12.90635	13.96622	16.05948	115	-4.44	-9.39	-8.43	-12.6
		116	12.22074	13.25676	15.66914	116	-3.73	-9.99	-8.76	-13.06
		117	11.58528	12.64865	15.13011	117	-3.81	-10.67	-9.06	-13.31
		118	10.98328	12.15878	14.59108	118	-3.39	-11.14	-9.41	-13.25
		119	11.08361	13.07095	14.5539	119	-3.37	-11.43	-9.65	-13.16
		120	12.30435	14.97973	15.16729	120	-4.29	-11.75	-9.64	-13.2
		121	13.64214	16.36486	15.98513	121	-4.57	-11.97	-9.6	-13.26
		122	14.56187	17.125	16.65428	122	-4.46	-12.17	-9.59	-13.24

123	15.3311	17.58108	17.0632	123	-4.83	-12.32	-9.58	-13.16
124	15.94983	17.96959	17.39777	124	-5.86	-12.42	-9.54	-13.04
125	16.31773	18.25676	17.71375	125	-6.25	-12.51	-9.48	-12.92
126	16.63545	18.52703	17.9368	126	-6.32	-12.55	-9.43	-12.82
127	16.91973	18.62838	18.15985	127	-6.57	-12.67	-9.36	-12.75
128	17.03679	18.61149	18.32714	128	-7.07	-12.5	-9.29	-12.68
129	17.05351	18.61149	18.45725	129	-7.24	-12.5	-9.19	-12.64
130	17.08696	18.62838	18.62454	130	-7.31	-12.36	-9.1	-12.61
131	17.08696	18.52703	18.69888	131	-7.42	-12.14	-9.03	-12.58
132	17.07023	18.51014	18.81041	132	-6.7	-11.9	-8.94	-12.54
133	17.03679	18.49324	18.88476	133	-6.01	-11.64	-8.87	-12.46
134	16.98662	18.44257	18.94052	134	-5.3	-11.31	-8.79	-12.45
135	16.90301	18.30743	18.95911	135	-4.94	-10.97	-8.71	-12.46
136	16.75251	18.12162	18.90335	136	-4.69	-10.61	-8.62	-12.48
137	16.51839	17.78378	18.829	137	-4.51	-10.28	-8.53	-12.48
138	16.11706	17.26014	18.64312	138	-4.46	-9.9	-8.44	-12.42
139	15.53177	16.48311	18.34572	139	-4.12	-9.5	-8.36	-12.35
140	14.84615	15.58784	17.89963	140	-3.66	-9.12	-8.27	-12.31
141	14.07692	14.70946	17.26766	141	-3.36	-8.76	-8.18	-12.29
142	13.35786	13.7973	16.7658	142	-3.21	-8.46	-8.15	-12.3
143	12.6388	13.13851	16.33829	143	-3.91	-8.34	-8.31	-12.3
144	11.90301	12.64865	15.81784	144	-3.57	-8.44	-8.56	-12.44
145	11.28428	12.10811	15.37175	145	-2.33	-8.63	-8.76	-12.77
146	10.76589	11.73649	15.01859	146	-2.8	-8.95	-8.91	-13.02
147	10.74916	12.34459	14.8513	147	-3.38	-9.29	-9.03	-13.16
148	11.75251	14.08446	15.42751	148	-4.13	-9.54	-9.12	-13.12
149	13.29097	15.73986	16.3197	149	-4.38	-9.88	-9.15	-13
150	14.5786	16.83784	17.13755	150	-6.86	-10.12	-9.12	-12.8
151	15.43144	17.56419	17.73234	151	-7.6	-10.28	-9.09	-12.68
152	16.05017	17.98649	18.14126	152	-8.56	-10.39	-9.08	-12.64
153	16.46823	18.27365	18.49442	153	-7.07	-10.41	-9.06	-12.6
154	16.75251	18.49324	18.73606	154	-7.15	-10.38	-9.03	-12.53
155	16.9699	18.64527	18.9777	155	-6.52	-10.39	-8.99	-12.48
156	17.03679	18.72973	19.16357	156	-5.95	-10.41	-8.92	-12.43
157	17.05351	18.72973	19.36803	157	-6.21	-10.33	-8.84	-12.41
158	17.05351	18.72973	19.4052	158	-6.25	-10.18	-8.77	-12.41
159	17.03679	18.71284	19.42379	159	-5.91	-9.96	-8.69	-12.39

Adsorp_exp_5

Experiment type: Adsorption experiment. The regolith type is JSC Mars-1 in this experiment, with a thickness of 2 mm. The initial weight was 78.13 g. The humidity buffer was LiCl which

has a RH of 11.31 at 0 degrees Celsius. Temperature around the sample was as close to -30 degrees Celsius as possible, cooled with liquid nitrogen and chiller system.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= humidity buffer 3= atmosphere 4= sample

Mass Min.	Mass	RH Min.	Ch02	Ch03	Ch04	T Min.	Ch01	Ch02	Ch03	Ch04
0	49.64	0	29.75251	48.51689	12.24907	0	-2.79	-20.42	-11.84	-14.18
2	49.74	1	31.94314	53.48311	10.76208	1	-9.45	-20.68	-12.02	-14.06
4	49.3	2	33.81605	56.52365	9.182156	2	-10.01	-20.78	-12.59	-14.01
6	46.37	3	35.32107	52.52027	8.141264	3	-12.23	-22.94	-14.41	-14.11
8	48.85	4	37.11037	45.1723	7.434944	4	-12.28	-24.13	-15.55	-14.43
10	50.27	5	39.28428	38.36486	7.118959	5	-11.08	-24.96	-15.56	-14.63
12	53.86	6	41.05686	31.89527	7.32342	6	-9.94	-25.46	-14.73	-14.64
14	50.37	7	40.65552	25.7973	7.416357	7	-9.36	-25.94	-14.54	-14.52
16	49.14	8	37.17726	20.02027	7.04461	8	-9.63	-26.73	-14.45	-14.38
18	49.46	9	32.04348	14.96959	5.947955	9	-9.94	-27.56	-14.3	-14.25
20	49.48	10	26.55853	10.71284	4.107807	10	-10.13	-28.32	-14.18	-14.13
22	49.53	11	21.19064	6.962838	2.081784	11	-10.33	-29.01	-14.04	-14.08
24	49.56	12	16.49164	3.753378	0.148699	12	-10.49	-29.63	-13.91	-14.02
26	49.55	13	12.41137	1.084459	1.747212	13	-10.63	-30.2	-13.79	-14.09
28	49.55	14	8.966555	1.162162	3.475836	14	-10.76	-30.71	-13.71	-14.28
30	49.54	15	6.22408	3.02027	5.018587	15	-10.8	-31.11	-13.66	-14.54
32	50.68	16	3.966555	4.472973	6.412639	16	-10.8	-31.4	-13.61	-14.82
34	51.87	17	2.060201	5.722973	7.472119	17	-10.8	-31.62	-13.59	-15.14
36	50.81	18	0.521739	6.702703	8.141264	18	-10.72	-31.78	-13.59	-15.46
38	49.56	19	0.682274	7.513514	8.457249	19	-10.53	-31.88	-13.61	-15.79
40	49.57	20	1.48495	8.189189	8.401487	20	-10	-31.93	-13.66	-16.12
42	49.59	21	1.936455	8.64527	8.197026	21	-9.41	-31.91	-13.76	-16.45
44	49.58	22	2.237458	9.388514	7.862454	22	-9.1	-31.81	-13.92	-16.74
46	49.57	23	2.605351	10.43581	7.657993	23	-9.19	-31.52	-14.03	-16.94
48	49.56	24	3.240803	11.39865	7.657993	24	-9.9	-31.13	-13.98	-16.99
50	49.56	25	4.093645	12.17568	7.769517	25	-9.94	-30.76	-13.94	-17
52	52.83	26	4.862876	12.90203	7.992565	26	-9.23	-30.38	-13.91	-17.06
54	51.39	27	5.498328	13.42568	8.289963	27	-8.17	-29.85	-13.86	-17.09
56	48.62	28	6.117057	13.72973	8.624535	28	-7.44	-29.38	-13.78	-17.07
58	49.58	29	6.602007	14.11824	8.903346	29	-8.74	-28.95	-13.73	-17.06
60	49.58	30	6.90301	14.60811	9.256506	30	-9.85	-29.07	-13.92	-17.09
62	49.6	31	7.137124	15.06419	9.684015	31	-10.46	-29.58	-14.65	-17.18
64	49.59	32	7.38796	15.35135	10	32	-10.72	-29.99	-14.88	-17.21

66	49.58	33	7.638796	15.53716	10.2974	33	-10.96	-30.45	-14.86	-17.18
68	49.57	34	7.822742	15.68919	10.61338	34	-11.13	-30.89	-14.77	-17.11
70	49.57	35	7.956522	15.72297	11.04089	35	-11.21	-31.24	-14.69	-17.04
72	50.36	36	8.140468	15.73986	11.6171	36	-11.16	-31.52	-14.63	-16.96
74	54.22	37	8.307692	15.79054	12.13755	37	-11.12	-31.76	-14.58	-16.88
76	49.54	38	8.391304	15.82432	12.45353	38	-11.02	-31.98	-14.57	-16.82
78	49.58	39	8.575251	15.82432	12.36059	39	-10.63	-32.15	-14.58	-16.74
80	49.59	40	8.77592	16.02703	12.10037	40	-10.21	-32.27	-14.63	-16.69
82	49.6	41	8.959866	16.28041	11.82156	41	-9.37	-32.21	-14.73	-16.65
84	49.59	42	9.19398	16.55068	11.67286	42	-9.91	-32.04	-14.76	-16.59
86	49.58	43	9.528428	16.80405	11.71004	43	-8.8	-31.81	-14.74	-16.51
88	49.57	44	9.979933	17.02365	11.9145	44	-8.28	-31.45	-14.7	-16.43
90	49.57	45	10.31438	17.22635	12.17472	45	-10.97	-30.69	-14.72	-16.31
92	50.26	46	10.49833	17.27703	12.41636	46	-10.45	-30.02	-14.75	-16.17
94	49.02	47	10.64883	17.17568	12.58364	47	-10.92	-29.33	-14.66	-16.06
96	48.56	48	10.76589	17.07432	12.69517	48	-10.64	-28.56	-14.59	-15.95
98	49.59	49	10.88294	17.00676	12.84387	49	-11.06	-28.51	-14.71	-15.91
100	49.59	50	11	17.10811	13.0855	50	-11.1	-29.19	-15.41	-16.01
102	49.6	51	11.06689	17.34459	13.2342	51	-11.24	-29.63	-15.72	-16.03
104	49.6	52	11.06689	17.53041	13.32714	52	-11.39	-30.12	-15.64	-16
106	49.59	53	11.05017	17.61486	13.42007	53	-11.56	-30.65	-15.5	-15.95
108	49.58	54	10.96656	17.71622	13.66171	54	-11.61	-31.15	-15.4	-15.89
110	49.57	55	10.89967	17.75	14.05204	55	-11.52	-31.57	-15.3	-15.82
112	50.72	56	10.8495	17.73311	14.36803	56	-11.45	-31.92	-15.23	-15.77
114	50.11	57	10.79933	17.68243	14.49814	57	-11.41	-32.22	-15.19	-15.7
116	50.17	58	10.81605	17.61486	14.53532	58	-11.29	-32.48	-15.18	-15.64
118	49.6	59	10.83278	17.63176	14.4052	59	-11	-32.69	-15.19	-15.55
120	49.59	60	10.88294	17.75	14.14498	60	-10.69	-32.81	-15.24	-15.48
122	49.61	61	11	17.86824	13.94052	61	-9.98	-32.75	-15.32	-15.46
124	49.59	62	11.16722	18.00338	13.90335	62	-9.84	-32.55	-15.36	-15.45
126	49.58	63	11.33445	18.18919	13.9777	63	-10.43	-32.21	-15.35	-15.42
128	49.57	64	11.50167	18.27365	14.23792	64	-10.52	-31.67	-15.34	-15.36
130	49.57	65	11.61873	18.375	14.51673	65	-10.51	-31.02	-15.29	-15.25
132	49.39	66	11.73579	18.35811	14.72119	66	-9.68	-30.42	-15.19	-15.12
134	50.28	67	11.80268	18.27365	14.83271	67	-10.91	-29.75	-15.12	-15.01
136	48.18	68	11.83612	18.23986	14.92565	68	-11.33	-28.95	-15.02	-14.91
138	50.2	69	11.88629	18.1723	15	69	-11.34	-28.32	-14.88	-14.83
140	49.6	70	11.9699	18.18919	15.20446	70	-11.37	-28.99	-15.52	-14.91
142	49.6	71	11.9699	18.25676	15.37175	71	-11.38	-29.47	-16.18	-15.01
144	49.62	72	11.9699	18.32432	15.40892	72	-11.53	-29.95	-16.21	-15
146	49.6	73	11.88629	18.45946	15.48327	73	-11.67	-30.49	-16.06	-14.95
148	49.58	74	11.76923	18.49324	15.46468	74	-11.6	-31.02	-15.92	-14.9
150	49.57	75	11.65217	18.51014	15.5948	75	-11.49	-31.48	-15.79	-14.87
152	49.57	76	11.55184	18.47635	15.65056	76	-11.45	-31.88	-15.69	-14.85
154	49.54	77	11.43478	18.40878	15.50186	77	-11.38	-32.22	-15.63	-14.83

156	57.09	78	11.301	18.34122	15.35316	78	-11.07	-32.52	-15.6	-14.81
158	49.21	79	11.31773	18.375	15.18587	79	-10.92	-32.74	-15.6	-14.78
160	49.57	80	11.43478	18.49324	14.94424	80	-10.29	-32.85	-15.65	-14.77
162	49.59	81	11.60201	18.51014	14.81413	81	-9.72	-32.83	-15.74	-14.74
164	49.6	82	11.73579	18.62838	14.94424	82	-9.29	-32.61	-15.76	-14.7
166	49.61	83	11.85284	18.67905	15.33457	83	-10.39	-32.2	-15.75	-14.63
168	49.59	84	11.98662	18.67905	15.65056	84	-11.44	-31.61	-15.74	-14.5
170	49.58	85	12.1204	18.69595	15.81784	85	-9.44	-31.2	-15.66	-14.4
172	49.57	86	12.30435	18.74662	16.00372	86	-9.37	-30.53	-15.5	-14.28
174	49.56	87	12.35452	18.78041	16.20818	87	-11.02	-29.78	-15.39	-14.16
176	54.66	88	12.43813	18.74662	16.39405	88	-11.12	-28.95	-15.18	-14.09
178	53.37	89	12.60535	18.66216	16.4684	89	-10.93	-28.34	-15.04	-14.04
180	49.28	90	12.70569	18.66216	16.56134	90	-11.35	-28.96	-15.65	-14.14
182	49.59	91	12.68896	18.69595	16.67286	91	-11.33	-29.44	-16.38	-14.26
184	49.59	92	12.72241	18.7973	16.63569	92	-11.53	-29.93	-16.49	-14.28
186	49.61	93	12.72241	18.88176	16.54275	93	-11.69	-30.49	-16.34	-14.22
188	49.59	94	12.57191	18.89865	16.56134	94	-11.68	-31.08	-16.21	-14.17
190	49.58	95	12.38796	18.84797	16.69145	95	-11.56	-31.58	-16.09	-14.14
192	49.57	96	12.23746	18.7973	16.63569	96	-11.41	-32	-15.98	-14.1
194	49.56	97	12.13712	18.74662	16.56134	97	-11.38	-32.37	-15.91	-14.08
196	49.65	98	12.07023	18.67905	16.41264	98	-11.28	-32.68	-15.87	-14.04
198	53.15	99	11.98662	18.67905	16.20818	99	-11.2	-32.93	-15.87	-14.02
200	48.1	100	11.9699	18.71284	16.05948	100	-11	-33.09	-15.91	-14
202	49.54	101	12.00334	18.78041	16.04089	101	-10.17	-33.1	-16.02	-13.98
204	49.59	102	12.18729	18.83108	16.171	102	-9.79	-32.88	-16.08	-13.92
206	49.59	103	12.40468	18.88176	16.39405	103	-10	-32.36	-16.07	-13.81
208	49.6	104	12.53846	18.93243	16.67286	104	-9.93	-31.96	-16.05	-13.69
210	49.58	105	12.67224	18.96622	16.89591	105	-10.69	-31.38	-16.01	-13.59
212	49.57	106	12.82274	18.98311	17.11896	106	-9.55	-30.79	-15.9	-13.47
214	49.56	107	12.98997	19.03378	17.30483	107	-11.01	-30.11	-15.75	-13.38
216	49.44	108	13.14047	19.01689	17.39777	108	-11.44	-29.31	-15.58	-13.32
218	50.04	109	13.30769	18.96622	17.49071	109	-11.73	-28.87	-15.51	-13.28
220	49.51	110	13.37458	18.94932	17.54647	110	-11.51	-29.6	-16.37	-13.43
222	50.01	111	13.40803	18.93243	17.62082	111	-11.52	-30.04	-16.8	-13.53
224	49.58	112	13.3913	19	17.65799	112	-11.67	-30.53	-16.71	-13.53
226	49.59	113	13.20736	19.03378	17.49071	113	-11.75	-31.08	-16.52	-13.48
228	49.6	114	12.98997	19.03378	17.47212	114	-11.7	-31.56	-16.34	-13.41
230	49.58	115	12.77258	19.01689	17.56506	115	-11.57	-31.99	-16.19	-13.37
232	49.57	116	12.57191	18.96622	17.65799	116	-11.43	-32.34	-16.07	-13.34
234	49.56	117	12.38796	18.91554	17.62082	117	-11.34	-32.65	-16	-13.3
236	49.56	118	12.30435	18.86486	17.49071	118	-11.1	-32.91	-15.98	-13.28
238	53.76	119	12.33779	18.88176	17.24907	119	-10.89	-33.1	-15.99	-13.26
240	54.88	120	12.4214	18.91554	17.13755	120	-9.99	-33.17	-16.09	-13.27
242	48.62	121	12.52174	19.01689	17.34201	121	-9.71	-33.04	-16.2	-13.27
244	49.58	122	12.6388	19.06757	17.50929	122	-10.68	-32.63	-16.22	-13.2

246	49.58	123	12.7893	19.06757	17.62082	123	-10.67	-32.07	-16.19	-13.09
248	49.59	124	12.98997	19.11824	17.82528	124	-9.68	-31.82	-16.1	-13
250	49.6	125	13.20736	19.13514	17.99257	125	-10.5	-31.03	-15.99	-12.92
252	49.58	126	13.37458	19.18581	18.19703	126	-11.19	-30.36	-15.91	-12.82
254	49.56	127	13.49164	19.16892	18.28996	127	-11.31	-29.5	-15.77	-12.73
256	49.56	128	13.64214	19.11824	18.34572	128	-10.97	-28.63	-15.48	-12.63
258	51	129	13.87625	19.06757	18.36431	129	-10.82	-27.92	-15.27	-12.54
260	50.95	130	14.01003	19.01689	18.43866	130	-11.32	-28.28	-15.78	-12.6
262	48.74	131	14.07692	19.03378	18.56877	131	-11.2	-28.95	-16.65	-12.76
264	49.58	132	14.09365	19.03378	18.55019	132	-11.37	-29.5	-16.83	-12.83
266	49.58	133	13.97659	19.10135	18.40149	133	-11.54	-30.1	-16.69	-12.82
268	49.59	134	13.72575	19.11824	18.28996	134	-11.72	-30.72	-16.51	-12.78
270	49.58	135	13.50836	19.10135	18.2342	135	-11.76	-31.33	-16.36	-12.75
272	49.56	136	13.37458	19.11824	18.3829	136	-11.65	-31.83	-16.23	-12.71
274	49.56	137	13.15719	19.13514	18.5316	137	-11.46	-32.27	-16.13	-12.67
276	49.55	138	12.97324	19.08446	18.58736	138	-11.36	-32.63	-16.06	-12.63
278	49.72	139	12.83946	19.06757	18.40149	139	-11.3	-32.95	-16.04	-12.61
280	47.52	140	12.75585	19.01689	18.10409	140	-11.1	-33.2	-16.02	-12.58
282	49.56	141	12.75585	19.01689	17.84387	141	-10.7	-33.36	-16.04	-12.52
284	49.57	142	12.82274	19.01689	17.86245	142	-9.96	-33.39	-16.15	-12.51
286	49.58	143	12.98997	19.11824	17.99257	143	-9.97	-33.18	-16.28	-12.51
288	49.58	144	13.19064	19.16892	18.19703	144	-10.49	-32.68	-16.28	-12.44
290	49.56	145	13.32441	19.23649	18.51301	145	-9.08	-32.32	-16.22	-12.36
292	49.54	146	13.50836	19.25338	18.81041	146	-9.54	-31.71	-16.13	-12.29
294	49.54	147	13.74247	19.21959	18.99628	147	-10.04	-31.09	-16.01	-12.21
296	54.55	148	13.87625	19.23649	19.07063	148	-11.14	-30.38	-15.96	-12.11
298	54.06	149	13.99331	19.27027	19.10781	149	-11.25	-29.45	-15.74	-12.02
300	48.84	150	14.16054	19.21959	19.14498	150	-10.89	-28.57	-15.44	-11.93
302	49.56	151	14.39465	19.13514	19.18216	151	-10.64	-27.84	-15.26	-11.86
304	49.56	152	14.52843	19.10135	19.25651	152	-11.21	-28.38	-15.89	-11.93
306	49.57	153	14.61204	19.11824	19.33086	153	-11.11	-29	-16.7	-12.05
308	49.56	154	14.56187	19.2027	19.29368	154	-11.31	-29.57	-16.8	-12.1
310	49.54	155	14.42809	19.25338	19.08922	155	-11.5	-30.19	-16.66	-12.08
312	49.54	156	14.2107	19.32095	18.95911	156	-11.66	-30.83	-16.5	-12.05
314	51.97	157	13.94314	19.30405	18.90335	157	-11.55	-31.43	-16.37	-12.02
316	59.31	158	13.69231	19.32095	18.90335	158	-11.38	-31.92	-16.23	-11.99
318	49.27	159	13.44147	19.27027	18.92193	159	-11.24	-32.34	-16.13	-11.96
320	49.55	160	13.25753	19.21959	18.81041	160	-11.2	-32.69	-16.07	-11.93
322	49.55	161	13.20736	19.18581	18.5316	161	-11.08	-32.98	-16.04	-11.89
324	49.56	162	13.20736	19.15203	18.21561	162	-10.8	-33.2	-16.04	-11.86
326	49.54	163	13.22408	19.11824	18.19703	163	-9.9	-33.29	-16.08	-11.85
328	49.53	164	13.29097	19.21959	18.32714	164	-9.58	-33.24	-16.21	-11.88
330	49.53	165	13.3913	19.23649	18.51301	165	-10.2	-32.9	-16.27	-11.86
332	50.96	166	13.55853	19.25338	18.829	166	-10.29	-32.56	-16.24	-11.8
334	55.33	167	13.7592	19.35473	19.14498	167	-11.38	-31.9	-16.18	-11.69

336	51.55	168	13.92642	19.40541	19.34944	168	-10.51	-31.31	-16.13	-11.56
338	49.56	169	14.0602	19.37162	19.5539	169	-10.72	-30.7	-15.99	-11.45
340	49.55	170	14.16054	19.28716	19.64684	170	-10.78	-29.97	-15.88	-11.37
342	49.56	171	14.31104	19.21959	19.79554	171	-11.14	-29.1	-15.6	-11.29
344	49.55	172	14.51171	19.23649	19.83271	172	-10.6	-28.25	-15.32	-11.21
346	49.54	173	14.71237	19.2027	19.83271	173	-11.25	-28.37	-15.65	-11.25
348	49.53	174	14.84615	19.27027	19.90706	174	-11.09	-29.08	-16.58	-11.42
350	49.53	175	14.86288	19.33784	19.8513	175	-11.3	-29.64	-16.83	-11.5
352	56.81	176	14.7291	19.33784	19.68401	176	-11.5	-30.23	-16.73	-11.51
354	62.73	177	14.49498	19.32095	19.51673	177	-11.58	-30.87	-16.56	-11.48
356	49.13	178	14.26087	19.35473	19.42379	178	-11.38	-31.46	-16.38	-11.45
358	49.54	179	14.02676	19.35473	19.31227	179	-11.18	-31.96	-16.23	-11.4
360	49.55	180	13.84281	19.32095	19.16357	180	-11.09	-32.38	-16.13	-11.35
362	49.56	181	13.70903	19.27027	18.90335	181	-11.06	-32.74	-16.08	-11.31
364	49.54	182	13.57525	19.25338	18.55019	182	-10.9	-33.03	-16.05	-11.27
366	49.53	183	13.50836	19.21959	18.2342	183	-10.78	-33.26	-16.05	-11.26
368	49.53	184	13.55853	19.23649	18.25279	184	-9.89	-33.35	-16.12	-11.28
370	49.53	185	13.64214	19.35473	18.45725	185	-9.61	-33.22	-16.24	-11.29
372	52.03	186	13.77592	19.37162	18.79182	186	-10.29	-32.72	-16.26	-11.24
374	61.7	187	13.94314	19.4223	19.14498	187	-9.07	-32.48	-16.21	-11.17
376	64.66	188	14.12709	19.48986	19.44238	188	-8.91	-31.89	-16.1	-11.07
378	49.33	189	14.24415	19.45608	19.7026	189	-9.87	-31.3	-15.93	-10.96
380	49.54	190	14.32776	19.45608	19.8513	190	-11.07	-30.61	-15.89	-10.85
382	49.55	191	14.52843	19.37162	19.92565	191	-10.99	-29.74	-15.75	-10.75
384	49.56	192	14.76254	19.37162	20	192	-10.74	-28.87	-15.43	-10.67
386	49.54	193	14.92977	19.38851	20.01859	193	-10.32	-28.08	-15.14	-10.6
388	49.53	194	15.09699	19.33784	20.11152	194	-11.1	-27.72	-15.2	-10.58
390	49.53	195	15.21405	19.35473	20.26022	195	-10.92	-28.51	-16.15	-10.74
		196	15.29766	19.38851	20.22305	196	-11.04	-29.11	-16.7	-10.87
		197	15.19732	19.4223	20.01859	197	-11.28	-29.73	-16.68	-10.9
		198	14.99666	19.4223	19.90706	198	-11.48	-30.39	-16.52	-10.87
		199	14.74582	19.40541	19.75836	199	-11.28	-31.04	-16.36	-10.83
		200	14.51171	19.40541	19.7026	200	-11.05	-31.6	-16.18	-10.79
		201	14.26087	19.45608	19.57249	201	-10.91	-32.07	-16.07	-10.73
		202	14.0602	19.38851	19.25651	202	-10.9	-32.48	-16.02	-10.68
		203	13.92642	19.33784	18.81041	203	-10.83	-32.82	-15.99	-10.64
		204	13.80936	19.33784	18.51301	204	-10.73	-33.09	-15.97	-10.62
		205	13.79264	19.35473	18.45725	205	-9.96	-33.23	-16	-10.63
		206	13.84281	19.43919	18.64312	206	-9.54	-33.21	-16.11	-10.66
		207	13.97659	19.52365	18.92193	207	-10.17	-32.82	-16.19	-10.64
		208	14.14381	19.52365	19.27509	208	-9.13	-32.5	-16.17	-10.56
		209	14.27759	19.55743	19.60967	209	-9.59	-31.96	-16.09	-10.46
		210	14.42809	19.54054	19.88848	210	-10.96	-31.35	-16.01	-10.36
		211	14.59532	19.48986	20.13011	211	-10.45	-30.7	-15.97	-10.24
		212	14.74582	19.48986	20.22305	212	-10.99	-29.89	-15.72	-10.15

213	14.94649	19.45608	20.33457	213	-10.95	-28.99	-15.41	-10.07
214	15.11371	19.50676	20.4461	214	-10.56	-28.22	-15.17	-10.01
215	15.28094	19.48986	20.46468	215	-10.91	-28.71	-15.74	-10.1
216	15.38127	19.47297	20.4461	216	-10.9	-29.33	-16.58	-10.29
217	15.3311	19.47297	20.33457	217	-11.17	-29.91	-16.7	-10.33
218	15.19732	19.52365	20.13011	218	-11.39	-30.53	-16.56	-10.31
219	14.92977	19.50676	19.98141	219	-11.13	-31.16	-16.37	-10.28
220	14.67893	19.47297	19.81413	220	-10.89	-31.71	-16.18	-10.25
221	14.47826	19.47297	19.53532	221	-10.8	-32.19	-16.04	-10.2
222	14.31104	19.48986	19.18216	222	-10.79	-32.58	-15.96	-10.15
223	14.16054	19.43919	18.84758	223	-10.66	-32.92	-15.92	-10.11
224	14.02676	19.4223	18.56877	224	-10.65	-33.18	-15.89	-10.08
225	14.01003	19.43919	18.56877	225	-9.86	-33.32	-15.92	-10.09
226	14.02676	19.4223	18.75465	226	-9.36	-33.27	-16.02	-10.12
227	14.09365	19.43919	19.07063	227	-10.3	-32.73	-16.08	-10.09
228	14.22742	19.48986	19.49814	228	-9.26	-32.38	-16.07	-10.01
229	14.39465	19.54054	19.83271	229	-8.81	-31.9	-15.97	-9.93
230	14.56187	19.59122	20.07435	230	-9.79	-31.31	-15.86	-9.85
231	14.69565	19.57432	20.31599	231	-10.3	-30.53	-15.71	-9.74
232	14.8796	19.55743	20.48327	232	-10.72	-29.78	-15.4	-9.66
233	15.08027	19.55743	20.55762	233	-10.54	-28.9	-15.12	-9.58
234	15.26421	19.47297	20.63197	234	-9.99	-28.01	-14.87	-9.51
235	15.46488	19.40541	20.76208	235	-10.34	-27.44	-14.81	-9.48
236	15.61538	19.37162	20.83643	236	-10.51	-28.22	-15.79	-9.65
237	15.61538	19.43919	20.83643	237	-10.75	-28.9	-16.41	-9.78
238	15.54849	19.52365	20.66914	238	-11.11	-29.57	-16.41	-9.8
239	15.39799	19.54054	20.40892	239	-11.35	-30.29	-16.29	-9.79
240	15.14716	19.55743	20.20446	240	-11.48	-30.99	-16.17	-9.76
241	14.96321	19.50676	20	241	-11.04	-31.62	-16.03	-9.73
242	14.76254	19.52365	20	242	-10.82	-32.15	-15.9	-9.69
243	14.49498	19.52365	19.68401	243	-10.76	-32.6	-15.81	-9.65
244	14.26087	19.48986	19.25651	244	-10.76	-32.95	-15.76	-9.61
245	14.19398	19.45608	18.90335	245	-10.59	-33.24	-15.72	-9.59
246	14.17726	19.43919	18.66171	246	-10.36	-33.45	-15.71	-9.57
247	14.12709	19.50676	18.79182	247	-9.44	-33.53	-15.74	-9.58
248	14.12709	19.54054	19.03346	248	-9.25	-33.43	-15.87	-9.61
249	14.19398	19.57432	19.34944	249	-10.33	-32.89	-15.92	-9.56
250	14.3612	19.60811	19.77695	250	-9.94	-32.4	-15.92	-9.47
251	14.51171	19.59122	20.1487	251	-11	-31.84	-15.86	-9.37
252	14.64548	19.57432	20.35316	252	-11.22	-31.24	-15.86	-9.25
253	14.77926	19.59122	20.55762	253	-11.33	-30.47	-15.7	-9.15
254	14.94649	19.60811	20.72491	254	-10.99	-29.66	-15.36	-9.06
255	15.19732	19.57432	20.91078	255	-10.71	-28.84	-15.1	-8.99
256	15.49833	19.52365	21.00372	256	-10.78	-28.85	-15.38	-9
257	15.63211	19.48986	21.00372	257	-10.72	-29.54	-16.2	-9.17

258	15.56522	19.48986	21.00372	258	-10.96	-30.1	-16.53	-9.26
259	15.48161	19.59122	20.87361	259	-11.2	-30.68	-16.45	-9.26
260	15.24749	19.60811	20.63197	260	-11.17	-31.29	-16.27	-9.23
261	14.96321	19.60811	20.40892	261	-10.82	-31.84	-16.03	-9.19
262	14.67893	19.55743	20.13011	262	-10.61	-32.32	-15.85	-9.15
263	14.46154	19.54054	19.75836	263	-10.59	-32.73	-15.75	-9.12
264	14.32776	19.48986	19.38662	264	-10.51	-33.07	-15.69	-9.1
265	14.2107	19.52365	19.08922	265	-10.65	-33.35	-15.65	-9.08
266	14.12709	19.52365	19.03346	266	-9.98	-33.5	-15.67	-9.08
267	14.16054	19.57432	19.21933	267	-9.09	-33.48	-15.76	-9.1
268	14.24415	19.55743	19.53532	268	-9.12	-33.21	-15.79	-9.07
269	14.46154	19.59122	19.88848	269	-9.07	-32.82	-15.74	-8.99
270	14.62876	19.55743	20.22305	270	-11.19	-32.14	-15.64	-8.89
271	14.76254	19.625	20.50186	271	-11.29	-31.57	-15.74	-8.79
272	14.89632	19.60811	20.76208	272	-10.96	-30.8	-15.75	-8.7
273	15.0301	19.64189	20.92937	273	-10.86	-29.91	-15.42	-8.61
274	15.26421	19.57432	21.00372	274	-10.71	-29.03	-15.07	-8.52
275	15.53177	19.54054	21.04089	275	-10.44	-28.82	-15.1	-8.04
276	15.68227	19.54054	21.15242	276	-10.42	-29.48	-15.92	-7.2
277	15.699	19.60811	21.171	277	-10.8	-30.01	-16.29	-6.7
278	15.68227	19.60811	21.04089	278	-10.99	-30.56	-16.14	-6.47
279	15.46488	19.64189	20.81784	279	-10.48	-31.13	-15.86	-6.52
280	15.16388	19.64189	20.52045	280	-10.2	-31.66	-15.58	-6.79
281	14.8796	19.60811	20.13011	281	-10.14	-32.12	-15.39	-7.18
282	14.66221	19.625	19.7026	282	-10.12	-32.51	-15.31	-7.66
283	14.47826	19.625	19.34944	283	-10.21	-32.86	-15.27	-8.19
284	14.39465	19.625	19.16357	284	-9.96	-33.09	-15.28	-8.73
285	14.37793	19.59122	19.31227	285	-9.02	-33.16	-15.38	-9.3
286	14.49498	19.65878	19.72119	286	-9.17	-32.96	-15.52	-9.83
287	14.67893	19.64189	20.13011	287	-8.55	-32.69	-15.59	-10.29
288	14.77926	19.60811	20.39033	288	-10.61	-32.13	-15.55	-10.7
289	14.84615	19.60811	20.61338	289	-11.42	-31.6	-15.59	-11.08
290	15.01338	19.625	20.78067	290	-11.55	-30.92	-15.77	-11.46
291	15.19732	19.60811	20.94796	291	-11.29	-30.1	-15.62	-11.83
292	15.43144	19.59122	21.13383	292	-10.9	-29.24	-15.31	-12.18
293	15.63211	19.60811	21.24535	293	-10.74	-28.58	-15.09	-12.5
294	15.76589	19.55743	21.33829	294	-11.1	-29.21	-15.9	-12.9
295	15.79933	19.57432	21.26394	295	-11.02	-29.84	-16.78	-13.32
296	15.71572	19.57432	21.13383	296	-11.26	-30.44	-16.89	-13.57
297	15.54849	19.59122	20.91078	297	-11.52	-31.1	-16.76	-13.71
298	15.29766	19.59122	20.61338	298	-11.3	-31.74	-16.6	-13.81
299	15.01338	19.55743	20.26022	299	-11.13	-32.31	-16.46	-13.86
300	14.76254	19.55743	19.8513	300	-11.18	-32.79	-16.38	-13.89
301	14.54515	19.50676	19.44238	301	-11.23	-33.2	-16.35	-13.92
302	14.37793	19.52365	18.99628	302	-11.25	-33.58	-16.34	-13.95

303	14.34448	19.52365	18.75465	303	-11.16	-33.86	-16.33	-13.95
304	14.31104	19.55743	18.75465	304	-10.19	-33.95	-16.4	-13.95
305	14.34448	19.57432	18.9777	305	-10.78	-33.54	-16.5	-13.95
306	14.32776	19.55743	19.31227	306	-10.9	-33.16	-16.6	-13.9
307	14.44482	19.59122	19.66543	307	-11.35	-32.69	-16.57	-13.83
308	14.61204	19.64189	20.01859	308	-12.85	-32.1	-16.56	-13.76
309	14.77926	19.57432	20.27881	309	-12.71	-31.4	-16.66	-13.7
310	14.96321	19.52365	20.46468	310	-12.34	-30.54	-16.45	-13.65
311	15.1806	19.55743	20.61338	311	-11.78	-29.67	-16.05	-13.59
312	15.48161	19.55743	20.76208	312	-12.09	-29.1	-15.82	-13.56
313	15.71572	19.50676	20.89219	313	-12.07	-29.86	-16.75	-13.75
314	15.699	19.48986	20.89219	314	-11.98	-30.46	-17.41	-13.92
315	15.61538	19.54054	20.76208	315	-12.08	-31.07	-17.39	-13.99
316	15.41472	19.54054	20.52045	316	-11.66	-31.69	-17.12	-13.99
317	15.16388	19.48986	20.07435	317	-11.61	-32.28	-16.91	-14
318	14.94649	19.54054	19.49814	318	-11.54	-32.79	-16.8	-13.99
319	14.74582	19.50676	19.01487	319	-11.58	-33.21	-16.71	-13.96
320	14.59532	19.45608	18.73606	320	-11.28	-33.57	-16.65	-13.93
321	14.51171	19.45608	18.56877	321	-10.63	-33.79	-16.67	-13.92
322	14.49498	19.48986	18.62454	322	-11	-33.63	-16.76	-13.95
323	14.51171	19.54054	18.95911	323	-10.75	-33.33	-16.81	-13.94
324	14.59532	19.59122	19.33086	324	-11.52	-32.95	-16.79	-13.91
325	14.67893	19.59122	19.64684	325	-12.58	-32.44	-16.76	-13.84
326	14.77926	19.57432	19.96283	326	-13.21	-31.8	-16.83	-13.79
327	14.89632	19.59122	20.16729	327	-12.89	-31.06	-16.78	-13.71
328	15.09699	19.52365	20.40892	328	-12.54	-30.2	-16.4	-13.64
329	15.34783	19.54054	20.63197	329	-11.95	-29.35	-16.03	-13.55
330	15.61538	19.47297	20.70632	330	-11.79	-28.61	-15.75	-13.47
331	15.79933	19.4223	20.83643	331	-12.44	-29	-16.29	-13.58
332	15.83278	19.43919	20.85502	332	-12.17	-29.79	-17.38	-13.82
333	15.73244	19.45608	20.79926	333	-12.37	-30.44	-17.62	-13.94
334	15.56522	19.45608	20.57621	334	-12.51	-31.14	-17.5	-13.99
335	15.29766	19.47297	20.27881	335	-12.07	-31.84	-17.28	-14
336	14.97993	19.47297	19.90706	336	-11.98	-32.45	-17.07	-14
337	14.71237	19.4223	19.47955	337	-12	-32.97	-16.96	-14.01
338	14.51171	19.38851	18.94052	338	-12.01	-33.43	-16.91	-14.03
339	14.3612	19.43919	18.45725	339	-11.87	-33.82	-16.86	-14.06
340	14.3612	19.40541	18.28996	340	-11.5	-34.01	-16.87	-14.09
341	14.3612	19.40541	18.36431	341	-11.22	-33.96	-16.97	-14.13
342	14.3612	19.47297	18.71747	342	-11.32	-33.53	-17.06	-14.11
343	14.39465	19.45608	19.08922	343	-12.09	-33.18	-17.04	-14.06
344	14.52843	19.50676	19.4052	344	-13.04	-32.7	-17	-13.98
345	14.5786	19.52365	19.75836	345	-13.67	-32.11	-17.09	-13.87
346	14.7291	19.52365	20.05576	346	-13.26	-31.38	-17.1	-13.79
347	15.01338	19.52365	20.26022	347	-12.91	-30.52	-16.71	-13.7

348	15.29766	19.52365	20.46468	348	-12.22	-29.69	-16.33	-13.62
349	15.51505	19.43919	20.57621	349	-12.07	-28.9	-16.03	-13.56
350	15.68227	19.45608	20.61338	350	-12.78	-29.09	-16.37	-13.63
351	15.71572	19.47297	20.70632	351	-12.44	-29.89	-17.57	-13.86
352	15.66555	19.45608	20.76208	352	-12.65	-30.54	-17.89	-13.99
353	15.46488	19.45608	20.57621	353	-12.86	-31.24	-17.79	-14.02
354	15.21405	19.43919	20.37175	354	-12.38	-31.95	-17.56	-14.01
355	15.01338	19.48986	20	355	-12.24	-32.58	-17.34	-13.98
356	14.79599	19.45608	19.53532	356	-12.26	-33.12	-17.22	-13.98
357	14.54515	19.40541	19.01487	357	-12.15	-33.57	-17.15	-13.98
358	14.39465	19.4223	18.58736	358	-12.16	-33.99	-17.09	-13.98
359	14.31104	19.43919	18.40149	359	-11.71	-34.21	-17.08	-13.99
360	14.29431	19.43919	18.43866	360	-11.33	-34.23	-17.15	-14.02
361	14.34448	19.43919	18.6803	361	-12.09	-33.75	-17.25	-14
362	14.46154	19.45608	19.05204	362	-11.99	-33.47	-17.27	-13.94
363	14.5786	19.50676	19.38662	363	-12.87	-32.99	-17.21	-13.87
364	14.67893	19.57432	19.7026	364	-13.68	-32.37	-17.24	-13.79
365	14.79599	19.54054	20	365	-13.41	-31.66	-17.25	-13.75
366	15.01338	19.52365	20.27881	366	-13.04	-30.8	-16.92	-13.73
367	15.23077	19.50676	20.52045	367	-12.44	-29.96	-16.53	-13.7
368	15.43144	19.43919	20.68773	368	-12.24	-29.15	-16.21	-13.66
369	15.64883	19.38851	20.79926	369	-12.13	-28.43	-15.94	-13.62
370	15.79933	19.33784	20.83643	370	-11.49	-27.64	-15.71	-13.55
371	15.81605	19.28716	20.87361	371	-12.98	-28.11	-16.21	-13.63
372	15.76589	19.28716	20.92937	372	-13.11	-28.84	-17.46	-13.85
373	15.71572	19.28716	20.81784	373	-13.67	-29.57	-17.84	-13.96
374	15.63211	19.37162	20.5948	374	-13.94	-30.42	-17.73	-13.98
375	15.53177	19.38851	20.4461	375	-13.26	-31.28	-17.62	-13.98
376	15.34783	19.40541	20.18587	376	-12.65	-32	-17.51	-13.99
377	15.13043	19.37162	19.81413	377	-12.75	-32.57	-17.4	-13.98
378	14.94649	19.35473	19.31227	378	-12.94	-32.99	-17.31	-13.97
379	14.81271	19.37162	18.88476	379	-12.99	-33.43	-17.24	-13.97
380	14.7291	19.43919	18.62454	380	-12.58	-33.81	-17.23	-13.98
381	14.69565	19.48986	18.5316	381	-11.97	-34.08	-17.27	-14.01
382	14.69565	19.50676	18.6803	382	-11.5	-34.01	-17.33	-14.05
383	14.71237	19.48986	18.9777	383	-12.65	-33.51	-17.4	-14.05
384	14.7291	19.48986	19.29368	384	-11.84	-33.19	-17.4	-14
385	14.79599	19.50676	19.64684	385	-11.34	-32.85	-17.3	-13.94
386	14.82943	19.55743	20	386	-13.23	-32.31	-17.32	-13.87
387	14.91304	19.60811	20.24164	387	-13.25	-31.59	-17.29	-13.83
388	15.08027	19.54054	20.50186	388	-12.93	-30.79	-16.95	-13.8
389	15.28094	19.45608	20.66914	389	-12.28	-29.91	-16.59	-13.77
390	15.46488	19.4223	20.83643	390	-11.83	-29.07	-16.28	-13.73

Adsorp_exp_6

Experiment type: Adsorption experiment. The regolith type is JSC Mars-1 in this experiment, with a thickness of 2 mm. The initial weight was 78.13 g. The humidity buffer was LiCl which has a RH of 11.31 at 0 degrees Celsius. Temperature around the sample was as close to -30 degrees Celsius as possible, cooled with liquid nitrogen and chiller system.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= humidity buffer 3= atmosphere 4= sample

Mass Min.	Mass	RH Min.	Ch02	Ch03	Ch04	T Min.	Ch01	Ch02	Ch03	Ch04
0	43.9	0	5.983278	7.976351	7.825279	0	-16.67	-28.2	-20.32	-15.88
2	43.55	1	5.397993	8.449324	8.568773	1	-15.99	-28.39	-20.77	-15.54
4	43.38	2	4.628763	8.14527	8.996283	2	-15.74	-28.76	-20.8	-15.35
6	43.34	3	3.408027	7.587838	9.237918	3	-17.26	-29.45	-21.02	-15.36
8	43.34	4	1.752508	6	9.330855	4	-16.78	-30.09	-20.98	-15.58
10	43.34	5	0.020067	3.179054	9.442379	5	-16.9	-30.74	-20.26	-15.64
12	43.34	6	1.424749	0.047297	9.36803	6	-16.42	-31.08	-19.77	-15.56
14	43.35	7	2.110368	2.885135	9.479554	7	-16.03	-31.62	-19.49	-15.41
16	43.37	8	1.759197	5.114865	10.09294	8	-15.93	-32.27	-19.17	-15.24
18	43.43	9	0.571906	7.091216	11.09665	9	-16.1	-32.9	-18.88	-15.1
20	43.47	10	1.06689	8.797297	12.34201	10	-16.36	-33.48	-18.67	-14.97
22	43.49	11	2.822742	10.23311	13.6803	11	-16.62	-34	-18.51	-14.85
24	43.5	12	4.428094	11.44932	14.92565	12	-16.81	-34.46	-18.4	-14.73
26	43.52	13	5.782609	12.44595	15.85502	13	-16.97	-34.87	-18.31	-14.67
28	43.55	14	6.953177	13.30743	16.78439	14	-17.1	-35.22	-18.24	-14.64
30	43.57	15	7.87291	14.01689	17.63941	15	-17.22	-35.53	-18.18	-14.58
32	43.6	16	8.608696	14.64189	18.21561	16	-17.27	-35.78	-18.14	-14.53
34	43.61	17	9.244147	15.21622	18.71747	17	-17.32	-35.98	-18.11	-14.51
36	43.61	18	9.729097	15.63851	19.14498	18	-17.37	-36.13	-18.05	-14.52
38	43.62	19	9.979933	15.99324	19.53532	19	-17.46	-36.21	-18.02	-14.52
40	43.63	20	9.996656	16.28041	19.75836	20	-17.23	-36.26	-18.04	-14.49
42	43.64	21	9.913043	16.55068	19.96283	21	-16.84	-36.27	-18.04	-14.44
44	43.64	22	9.812709	16.82095	20.13011	22	-16.3	-36.24	-18.04	-14.43
46	43.65	23	9.745819	17.04054	20.13011	23	-15.71	-36.18	-18.12	-14.43
48	43.66	24	9.745819	17.20946	19.98141	24	-15.42	-36.06	-18.27	-14.43
50	43.67	25	9.829431	17.37838	19.66543	25	-14.89	-35.86	-18.46	-14.47
52	43.68	26	10.06355	17.58108	19.27509	26	-14.24	-35.61	-18.68	-14.53

54	43.68	27	10.43144	17.81757	19.01487	27	-13.75	-35.33	-18.92	-14.6
56	43.68	28	10.71572	18.08784	18.77323	28	-13.36	-35.06	-19.15	-14.68
58	43.68	29	10.86622	18.39189	18.5316	29	-13.07	-34.79	-19.33	-14.73
60	43.69	30	11.01672	18.62838	18.45725	30	-12.89	-34.5	-19.51	-14.8
62	43.69	31	11.10033	18.84797	18.25279	31	-12.65	-34.23	-19.69	-14.83
64	43.69	32	11.20067	19.05068	18.06691	32	-12.38	-33.98	-19.88	-14.85
66	43.69	33	11.31773	19.16892	18.06691	33	-12.24	-33.73	-20.02	-14.87
68	43.69	34	11.43478	19.35473	17.91822	34	-12.06	-33.49	-20.08	-14.91
70	43.7	35	11.45151	19.48986	17.71375	35	-11.84	-33.24	-20.15	-14.93
72	43.69	36	11.60201	19.55743	17.56506	36	-11.67	-32.97	-20.35	-14.94
74	43.69	37	11.78595	19.70946	17.39777	37	-11.64	-32.82	-20.43	-14.98
76	43.69	38	12.00334	19.81081	17.28625	38	-11.55	-32.64	-20.37	-15.02
78	43.7	39	12.18729	19.81081	17.26766	39	-11.33	-32.48	-20.37	-15.05
80	43.7	40	12.22074	19.86149	17.04461	40	-11.09	-32.29	-20.44	-15.06
82	43.7	41	12.22074	19.92905	16.87732	41	-10.94	-32.16	-20.52	-15.05
84	43.7	42	12.15385	19.94595	16.74721	42	-10.84	-32.1	-20.42	-15.04
86	43.71	43	12.05351	19.96284	16.63569	43	-10.84	-32.01	-20.26	-15.02
88	43.71	44	11.80268	19.99662	16.44981	44	-11.03	-31.97	-20.26	-15
90	43.71	45	11.31773	19.97973	16.26394	45	-11.05	-31.95	-20.32	-14.98
92	43.72	46	10.76589	19.84459	16.07807	46	-11.02	-31.92	-20.3	-14.99
94	43.72	47	10.3311	19.69257	15.92937	47	-11.03	-31.88	-20.31	-15
96	43.72	48	10.01338	19.57432	15.85502	48	-11.05	-31.86	-20.4	-15.02
98	43.72	49	9.695652	19.4223	15.87361	49	-11.07	-31.84	-20.5	-15.04
100	43.72	50	9.311037	19.23649	15.87361	50	-11.09	-31.81	-20.52	-15.03
102	43.73	51	8.842809	19.13514	15.85502	51	-11.08	-31.78	-20.55	-15.01
104	43.81	52	8.374582	19.06757	15.74349	52	-11.07	-31.76	-20.47	-15.01
106	43.76	53	7.956522	18.94932	15.68773	53	-11.06	-31.75	-20.36	-15.03
108	43.74	54	7.622074	18.7973	15.66914	54	-11.01	-31.74	-20.3	-15.04
110	43.73	55	7.454849	18.67905	15.57621	55	-10.97	-31.74	-20.24	-15.07
112	43.73	56	7.354515	18.64527	15.57621	56	-10.97	-31.74	-20.22	-15.08
114	43.73	57	7.254181	18.64527	15.61338	57	-10.96	-31.74	-20.24	-15.08
116	45.23	58	7.337793	18.5777	15.66914	58	-10.93	-31.72	-20.37	-15.08
118	44.84	59	7.438127	18.59459	15.63197	59	-10.89	-31.71	-20.5	-15.08
120	44.48	60	7.555184	18.62838	15.63197	60	-10.86	-31.69	-20.63	-15.07
122	44.26	61	7.622074	18.67905	15.57621	61	-10.86	-31.68	-20.66	-15.07
124	44.15	62	7.822742	18.74662	15.65056	62	-10.82	-31.65	-20.49	-15.07
126	43.99	63	8.073579	18.7973	15.76208	63	-10.78	-31.64	-20.4	-15.05
128	43.88	64	8.240803	18.91554	15.76208	64	-10.95	-31.62	-20.29	-15.02
130	43.82	65	8.424749	19.01689	15.74349	65	-10.92	-31.6	-20.17	-15.02
132	43.79	66	8.625418	19.13514	15.72491	66	-10.92	-31.56	-20.05	-15.01
134	43.78	67	8.692308	19.15203	15.81784	67	-12.38	-31.61	-20.04	-15
136	43.78	68	8.725753	19.16892	15.89219	68	-12.66	-31.65	-20.25	-14.96
138	43.78	69	8.608696	19.25338	15.94796	69	-14.37	-31.63	-20.35	-14.84
140	43.79	70	8.458194	19.18581	16.05948	70	-15.94	-31.7	-20.43	-14.76
142	43.79	71	8.441472	19.10135	16.05948	71	-16.3	-31.81	-20.5	-14.73

144	43.8	72	8.441472	19.03378	16.00372	72	-16.27	-31.93	-20.42	-14.7
146	43.8	73	8.491639	19	15.98513	73	-17.3	-31.98	-20.4	-14.75
148	43.8	74	8.742475	19	16.07807	74	-17.69	-31.99	-20.44	-14.83
150	43.8	75	9.177258	19.03378	16.18959	75	-18.19	-32.08	-20.27	-14.85
152	43.8	76	9.662207	18.96622	16.171	76	-18.44	-32.04	-20.03	-14.84
154	43.81	77	10.0301	18.94932	16.13383	77	-18.56	-32.04	-19.86	-14.83
156	44.2	78	10.41472	18.91554	16.20818	78	-18.76	-32.06	-19.79	-14.81
158	54.16	79	10.83278	18.81419	16.15242	79	-18.77	-32.05	-19.79	-14.79
160	52.26	80	11.23411	18.7973	16.20818	80	-18.78	-32.07	-19.82	-14.77
162	50.64	81	11.53512	18.74662	16.24535	81	-18.68	-32.13	-19.88	-14.76
164	50.02	82	11.80268	18.78041	16.26394	82	-18.62	-32.12	-19.88	-14.75
166	48.72	83	11.9699	18.83108	16.28253	83	-18.5	-32.07	-19.81	-14.76
168	47.84	84	12.08696	18.83108	16.35688	84	-18.21	-32.02	-19.7	-14.75
170	47.12	85	12.20401	18.78041	16.37546	85	-18.1	-32.03	-19.54	-14.74
172	46.5	86	12.33779	18.72973	16.44981	86	-18.16	-32.1	-19.39	-14.7
174	45.98	87	12.53846	18.69595	16.52416	87	-18.19	-32.16	-19.31	-14.67
176	45.54	88	12.70569	18.67905	16.57993	88	-18.16	-32.22	-19.28	-14.65
178	45.16	89	12.83946	18.64527	16.63569	89	-18.07	-32.24	-19.26	-14.65
180	44.86	90	12.90635	18.71284	16.57993	90	-18.04	-32.26	-19.22	-14.65
182	44.71	91	13.00669	18.74662	16.6171	91	-18.04	-32.26	-19.2	-14.65
184	44.44	92	13.07358	18.72973	16.67286	92	-17.94	-32.26	-19.15	-14.67
186	44.24	93	13.20736	18.72973	16.69145	93	-17.65	-32.29	-19.12	-14.68
188	44.24	94	13.37458	18.81419	16.74721	94	-17.54	-32.3	-19.08	-14.69
190	44.08	95	13.55853	18.84797	16.80297	95	-17.55	-32.33	-19.11	-14.69
192	44.69	96	13.7592	18.83108	16.7658	96	-17.53	-32.34	-19.09	-14.69
194	44.4	97	13.82609	18.89865	16.7658	97	-17.48	-32.35	-19.08	-14.69
196	44.25	98	13.82609	18.91554	16.80297	98	-17.48	-32.33	-19.14	-14.69
198	44.49	99	13.79264	18.98311	16.84015	99	-17.44	-32.26	-19.48	-14.68
200	44.28	100	13.7592	18.98311	16.84015	100	-17.51	-32.13	-19.8	-14.67
202	46.41	101	13.65886	18.96622	16.89591	101	-17.34	-31.94	-20.06	-14.65
204	45.93	102	13.55853	18.94932	16.9145	102	-17.4	-31.74	-20.27	-14.62
206	45.43	103	13.49164	18.93243	16.97026	103	-17.69	-31.59	-20.47	-14.58
208	45.09	104	13.2408	18.91554	16.95167	104	-17.72	-31.53	-20.46	-14.53
210	45.57	105	12.83946	18.86486	16.89591	105	-17.45	-31.4	-20.25	-14.49
212	44.92	106	12.38796	18.84797	16.85874	106	-17.07	-31.23	-20.17	-14.48
214	44.65	107	12.00334	18.72973	16.98885	107	-17.13	-31.04	-20.11	-14.43
216	44.47	108	11.70234	18.62838	16.97026	108	-16.91	-30.83	-20.17	-14.39
218	44.39	109	11.38462	18.49324	16.89591	109	-16.79	-30.62	-20.25	-14.35
220	44.51	110	10.96656	18.34122	16.93309	110	-16.95	-30.48	-20.37	-14.31
222	44.21	111	10.56522	18.30743	16.9145	111	-17.07	-30.39	-20.52	-14.28
224	44.02	112	10.21405	18.23986	17.0632	112	-17.2	-30.33	-20.65	-14.25
226	43.95	113	9.979933	18.15541	17.08178	113	-17.37	-30.3	-20.75	-14.21
228	43.93	114	9.946488	18.10473	17.0632	114	-17.54	-30.27	-20.78	-14.18
230	43.92	115	9.929766	18.03716	17.0632	115	-17.56	-30.22	-20.68	-14.15
232	43.91	116	10.04682	18.03716	17.08178	116	-17.21	-30.18	-20.56	-14.13

234	43.91	117	10.26421	18.00338	17.11896	117	-17.01	-30.15	-20.48	-14.12
236	43.92	118	10.51505	18.02027	17.0632	118	-16.81	-30.22	-20.35	-14.11
238	43.92	119	10.73244	18.05405	17.08178	119	-16.8	-30.23	-20.23	-14.1
240	44.5	120	10.89967	18.08784	17.13755	120	-16.05	-30.04	-20.08	-14.09
242	43.96	121	11.01672	18.10473	17.2119	121	-15.73	-29.94	-19.95	-14.08
244	43.91	122	11.05017	18.02027	17.24907	122	-15.76	-29.91	-19.88	-14.11
246	43.87	123	11.1505	17.96959	17.26766	123	-15.98	-29.91	-19.83	-14.13
248	43.83	124	11.1505	17.9527	17.23048	124	-15.93	-29.93	-19.8	-14.16
250	43.79	125	11.21739	17.96959	17.26766	125	-15.92	-29.93	-19.78	-14.17
252	43.79	126	11.21739	18.03716	17.34201	126	-15.98	-29.95	-19.76	-14.17
254	43.79	127	11.301	18.1723	17.37918	127	-16.06	-29.99	-19.76	-14.18
256	43.8	128	11.40134	18.30743	17.37918	128	-16.21	-30	-19.75	-14.16
258	43.81	129	11.51839	18.34122	17.37918	129	-16.34	-30.02	-19.75	-14.14
260	43.82	130	11.63545	18.42568	17.43494	130	-16.34	-30.04	-19.79	-14.12
262	43.99	131	11.76923	18.49324	17.45353	131	-16.51	-30.07	-19.97	-14.09
264	43.89	132	11.88629	18.52703	17.50929	132	-16.51	-30.11	-20.13	-14.06
266	43.84	133	12.02007	18.64527	17.62082	133	-16.54	-30.14	-20.25	-14.06
268	43.78	134	12.18729	18.71284	17.50929	134	-16.52	-30.18	-20.37	-14.05
270	43.73	135	12.35452	18.78041	17.60223	135	-16.53	-30.21	-20.36	-14.04
272	43.74	136	12.35452	18.83108	17.62082	136	-16.5	-30.23	-20.2	-14.03
274	43.74	137	12.40468	18.81419	17.63941	137	-16.43	-30.24	-20.08	-14.02
276	43.75	138	12.67224	18.83108	17.71375	138	-16.35	-30.24	-19.99	-14
278	43.76	139	12.95652	18.84797	17.71375	139	-16.21	-30.22	-19.97	-13.99
280	43.79	140	13.07358	18.78041	17.63941	140	-15.87	-30.16	-19.94	-13.98
282	43.83	141	13.12375	18.72973	17.63941	141	-15.62	-30.12	-19.88	-13.99
284	43.82	142	13.17391	18.71284	17.62082	142	-15.35	-30.12	-19.8	-14.01
286	43.78	143	13.14047	18.67905	17.62082	143	-15.17	-30.11	-19.75	-14.02
288	43.76	144	13.17391	18.62838	17.67658	144	-15.07	-30.06	-19.7	-14.04
290	43.76	145	13.15719	18.59459	17.71375	145	-15.01	-30.04	-19.65	-14.04
292	43.76	146	13.12375	18.5777	17.73234	146	-14.83	-29.99	-19.64	-14.03
294	43.76	147	13.10702	18.61149	17.67658	147	-14.78	-29.98	-19.65	-14.02
296	43.76	148	13.0903	18.61149	17.67658	148	-14.6	-29.96	-19.64	-14.02
298	43.77	149	13.14047	18.5777	17.69517	149	-14.62	-29.88	-19.63	-14.03
300	43.77	150	13.10702	18.5777	17.71375	150	-14.45	-29.82	-19.63	-14.05
302	43.78	151	13.04013	18.62838	17.82528	151	-14.43	-29.78	-19.63	-14.08
304	43.79	152	13.0903	18.64527	17.80669	152	-14.38	-29.71	-19.63	-14.1
306	43.8	153	13.02341	18.59459	17.82528	153	-14.13	-29.68	-19.62	-14.11
308	43.85	154	12.98997	18.66216	17.80669	154	-12.08	-29.71	-19.57	-14.17
310	43.81	155	12.88963	18.7973	17.75093	155	-12.72	-29.48	-19.45	-14.19
312	43.79	156	12.7893	18.86486	17.67658	156	-15.85	-29.49	-19.51	-14.35
314	43.78	157	12.60535	18.88176	17.60223	157	-21.13	-30.25	-19.5	-14.42
316	43.77	158	12.4214	18.86486	17.47212	158	-24.88	-31.04	-19.33	-14.37
318	43.76	159	12.17057	18.74662	17.36059	159	-21.35	-32.29	-19.76	-14.39
320	43.76	160	11.83612	18.59459	17.36059	160	-20.26	-33.51	-20.24	-14.45
322	43.76	161	11.75251	18.42568	17.2119	161	-17.82	-33.74	-21.31	-14.47

324	43.77	162	11.65217	18.27365	17.08178	162	-11.89	-34.01	-21.72	-14.44
326	43.78	163	11.38462	18.18919	17.04461	163	-10.75	-34.35	-21.53	-14.43
328	43.79	164	11.13378	18.1723	17.0632	164	-12.59	-34.8	-21.15	-14.42
330	43.85	165	11.10033	18.1723	17.19331	165	-12.06	-35.17	-21.1	-14.42
332	43.8	166	11.13378	18.22297	17.36059	166	-9.99	-35.54	-21.07	-14.4
334	43.78	167	11.1505	18.35811	17.54647	167	-9.01	-35.7	-20.77	-14.38
336	43.76	168	10.93311	18.45946	17.69517	168	-8.92	-35.54	-20.66	-14.37
338	43.74	169	10.71572	18.62838	17.75093	169	-11.43	-35.56	-20.66	-14.37
340	43.73	170	10.58194	18.81419	17.7881	170	-15.46	-36.02	-20.83	-14.38
342	43.73	171	10.71572	18.91554	17.76952	171	-16	-36.27	-21	-14.37
344	43.75	172	10.94983	18.93243	17.7881	172	-17.05	-36.17	-21.02	-14.35
346	43.76	173	11.26756	18.86486	17.76952	173	-17.05	-36.25	-20.98	-14.35
348	43.77	174	11.60201	18.83108	17.67658	174	-17.55	-36.32	-20.79	-14.39
350	43.78	175	11.90301	18.81419	17.67658	175	-17.5	-36.43	-20.62	-14.43
352	43.77	176	12.15385	18.78041	17.63941	176	-17.83	-36.47	-20.48	-14.46
354	43.72	177	12.40468	18.78041	17.63941	177	-17.33	-36.47	-20.38	-14.5
356	43.71	178	12.70569	18.7973	17.60223	178	-17.1	-36.45	-20.37	-14.52
358	43.71	179	12.88963	18.7973	17.63941	179	-17.19	-36.35	-20.36	-14.52
360	43.72	180	13.02341	18.7973	17.63941	180	-17.31	-36.21	-20.42	-14.51
362	43.72	181	13.14047	18.76351	17.73234	181	-17.33	-36.02	-20.44	-14.51
364	43.73	182	13.2408	18.72973	17.82528	182	-17.24	-35.77	-20.37	-14.51
366	43.74	183	13.32441	18.69595	17.76952	183	-16.86	-35.53	-20.3	-14.48
368	43.74	184	13.42475	18.66216	17.84387	184	-16.64	-35.35	-20.32	-14.44
370	43.74	185	13.44147	18.59459	17.91822	185	-16.45	-35.15	-20.3	-14.41
372	43.76	186	13.49164	18.47635	17.91822	186	-16.13	-34.94	-20.31	-14.38
374	43.77	187	13.57525	18.40878	17.9368	187	-16	-34.75	-20.37	-14.35
376	43.72	188	13.62542	18.375	17.91822	188	-16.07	-34.57	-20.43	-14.35
378	43.71	189	13.52508	18.34122	17.95539	189	-16.47	-34.39	-20.5	-14.31
380	43.71	190	13.50836	18.22297	18.04833	190	-16.8	-34.24	-20.77	-14.28
382	43.71	191	13.54181	18.10473	18.0855	191	-17.07	-34.12	-20.85	-14.21
384	43.71	192	13.54181	17.90203	18.10409	192	-17.11	-34.06	-20.81	-14.2
386	43.71	193	13.57525	17.73311	18.02974	193	-17.27	-34.03	-20.74	-14.22
388	43.72	194	13.57525	17.73311	18.12268	194	-17.33	-33.99	-20.78	-14.22
390	43.73	195	13.64214	17.64865	18.10409	195	-17.14	-33.93	-20.71	-14.19
392	43.74	196	13.62542	17.58108	18.04833	196	-17.17	-33.84	-20.62	-14.15
394	43.73	197	13.70903	17.51351	18.0855	197	-17.26	-33.74	-20.56	-14.14
396	43.74	198	13.70903	17.39527	18.06691	198	-17.22	-33.61	-20.54	-14.1
398	43.72	199	13.70903	17.26014	18.0855	199	-17.08	-33.49	-20.51	-14.06
400	43.7	200	13.74247	17.20946	18.14126	200	-16.92	-33.35	-20.49	-14.04
402	43.69	201	13.80936	17.14189	18.17844	201	-16.79	-33.21	-20.4	-14.06
404	43.69	202	13.92642	17.09122	18.12268	202	-16.65	-32.98	-20.16	-14.03
406	43.69	203	13.94314	17.05743	18.10409	203	-16.51	-32.74	-19.92	-13.98
408	43.7	204	13.92642	16.98986	18.04833	204	-16.21	-32.49	-19.78	-13.98
410	43.71	205	13.82609	16.98986	18.01115	205	-15.9	-32.26	-19.68	-13.97
412	43.71	206	13.77592	16.98986	18.02974	206	-15.77	-32.07	-19.62	-13.96

414	43.71	207	13.7592	17.05743	18.06691	207	-15.81	-31.89	-19.59	-13.94
416	43.7	208	13.67559	17.07432	18.04833	208	-15.82	-31.75	-19.58	-13.92
418	43.68	209	13.69231	17.125	17.95539	209	-15.72	-31.62	-19.58	-13.93
420	43.67	210	13.69231	17.26014	17.95539	210	-15.56	-31.46	-19.53	-13.94
422	43.68	211	13.64214	17.29392	17.95539	211	-15.44	-31.31	-19.48	-13.94
424	43.69	212	13.54181	17.27703	17.86245	212	-15.16	-31.15	-19.45	-13.93
426	43.7	213	13.45819	17.27703	17.86245	213	-14.85	-30.99	-19.44	-13.95
428	43.7	214	13.42475	17.31081	17.99257	214	-12.55	-30.85	-19.39	-13.97
430	43.7	215	13.37458	17.27703	18.01115	215	-11.26	-30.52	-19.27	-14.06
432	43.69	216	13.30769	17.36149	18.10409	216	-10.91	-30.21	-19.18	-14.13
434	43.66	217	13.2408	17.42905	18.10409	217	-10.66	-29.93	-19.11	-14.19
436	43.66	218	13.20736	17.58108	18.19703	218	-10.46	-29.69	-19.06	-14.24
438	43.66	219	13.0903	17.71622	18.28996	219	-10	-29.45	-19.01	-14.25
440	43.66	220	12.83946	17.81757	18.30855	220	-10.34	-29.74	-19.13	-14.31
442	43.67	221	11.95318	17.73311	18.30855	221	-11.66	-30.31	-20.23	-14.38
444	43.67	222	10.79933	17.17568	18.28996	222	-11.25	-30.83	-22.38	-14.42
446	43.69	223	9.879599	16.43243	18.2342	223	-11.13	-31.31	-21.35	-14.42
		224	9.177258	15.53716	18.25279	224	-11.51	-31.68	-20.38	-14.36
		225	8.742475	14.64189	18.25279	225	-12.2	-31.98	-20.11	-14.07
		226	8.458194	13.81419	18.17844	226	-12.66	-32.21	-19.91	-13.8
		227	8.307692	12.73311	18.14126	227	-12.36	-32.35	-19.76	-13.62
		228	8.240803	11.55068	18.28996	228	-11.53	-32.39	-19.71	-13.51
		229	8.240803	10.6723	18.43866	229	-11.41	-32.43	-19.74	-13.44
		230	8.324415	10.30068	18.60595	230	-12.2	-32.1	-19.84	-13.39
		231	8.558528	10.48649	18.79182	231	-11.53	-31.72	-19.84	-13.26
		232	8.926421	11.14527	18.90335	232	-11.71	-31.33	-19.76	-13.14
		233	9.377926	12.09122	18.94052	233	-11.33	-31	-19.89	-13.1
		234	9.745819	12.93581	18.92193	234	-11.85	-30.56	-19.86	-13.09
		235	10.0301	13.67905	19.01487	235	-12.09	-30.05	-19.89	-13.07
		236	10.29766	14.23649	19.08922	236	-10.69	-29.74	-19.99	-13.09
		237	10.53177	14.69257	19.08922	237	-10.67	-29.42	-19.96	-13.12
		238	10.699	15.11486	19.18216	238	-13.55	-29.3	-20.19	-13.11
		239	10.66555	15.33446	19.16357	239	-16.06	-29.64	-20.74	-13.12
		240	10.24749	15.4527	19.03346	240	-16.34	-30.09	-20.46	-13.11
		241	9.61204	15.65541	18.73606	241	-17.01	-30.5	-20.27	-13.1
		242	9.010033	16.0777	18.47584	242	-15.28	-30.89	-20.3	-13.13
		243	8.458194	16.41554	18.2342	243	-13.75	-31.3	-20.32	-13.17
		244	7.822742	16.24662	18.0855	244	-13.52	-31.61	-20.16	-13.18
		245	7.254181	15.90878	18.06691	245	-13.28	-31.85	-19.99	-13.17
		246	6.785953	15.57095	18.0855	246	-13.13	-32.09	-19.86	-13.14
		247	6.334448	15.31757	18.17844	247	-13.09	-32.31	-19.78	-13.11
		248	6.100334	15.13176	18.21561	248	-13.09	-32.48	-19.77	-13.09
		249	6.117057	14.97973	18.27138	249	-12.67	-32.56	-19.82	-13.08
		250	6.334448	14.92905	18.47584	250	-11.42	-32.58	-19.93	-13.08
		251	6.752508	14.97973	18.6803	251	-11.37	-32.57	-20.08	-13.09

252	7.32107	15.14865	18.95911	252	-11.65	-32.52	-20.21	-13.09
253	7.939799	15.43581	19.23792	253	-12.78	-32.06	-20.32	-13.06
254	8.508361	15.75676	19.4052	254	-13.67	-31.59	-20.43	-12.96
255	8.943144	15.97635	19.60967	255	-12.05	-31.17	-20.51	-12.88
256	9.377926	16.26351	19.77695	256	-12.81	-30.71	-20.58	-12.83
257	9.779264	16.55068	19.83271	257	-12.5	-30.26	-20.72	-12.77
258	10.09699	16.66892	19.98141	258	-11.73	-29.78	-20.82	-12.74
259	10.43144	16.83784	20.01859	259	-10.97	-29.44	-20.69	-12.74
260	10.699	17.05743	19.90706	260	-13.37	-29.4	-20.8	-12.72
261	10.83278	17.17568	19.86989	261	-16.72	-29.72	-20.76	-12.71
262	10.86622	17.24324	19.86989	262	-17.08	-30.3	-20.42	-12.7
263	10.86622	17.41216	19.92565	263	-17.11	-30.84	-20.21	-12.66
264	10.86622	17.68243	19.90706	264	-15.63	-31.23	-20.09	-12.65
265	10.8495	17.93581	20.07435	265	-15.1	-31.63	-19.97	-12.65
266	10.8495	18.02027	20.16729	266	-15.19	-31.98	-19.82	-12.63
267	10.96656	18.12162	20.27881	267	-15.05	-32.22	-19.7	-12.59
268	11.16722	18.30743	20.37175	268	-14.65	-32.37	-19.62	-12.53
269	11.36789	18.47635	20.46468	269	-14.34	-32.5	-19.6	-12.49
270	11.51839	18.56081	20.46468	270	-14.23	-32.57	-19.6	-12.45
271	11.71906	18.64527	20.57621	271	-13.87	-32.63	-19.65	-12.42
272	11.93645	18.71284	20.65056	272	-13.55	-32.62	-19.77	-12.4
273	12.15385	18.7973	20.78067	273	-13.1	-32.57	-19.92	-12.38
274	12.40468	18.89865	20.98513	274	-12.54	-32.43	-20.05	-11.75
275	12.67224	19	21.15242	275	-12.22	-32.22	-20.17	-10.87
276	12.87291	19.15203	21.26394	276	-11.68	-31.92	-20.32	-10.23
277	13.07358	19.28716	21.26394	277	-11.64	-31.32	-20.45	-9.84
278	13.20736	19.37162	21.28253	278	-11.67	-30.93	-20.42	-9.6
279	13.29097	19.4223	21.30112	279	-10.87	-30.65	-20.31	-9.47
280	13.35786	19.43919	21.24535	280	-10.85	-30.35	-20.55	-9.41
281	13.27425	19.50676	21.22677	281	-10.57	-29.99	-20.68	-9.37
282	13.07358	19.52365	21.09665	282	-10.17	-29.65	-20.95	-9.36
283	12.80602	19.52365	20.92937	283	-10.2	-29.31	-21.24	-9.36
284	12.57191	19.55743	20.79926	284	-15.21	-29.38	-21.47	-9.28
285	12.2709	19.43919	20.66914	285	-16.6	-29.87	-21.31	-9.2
286	11.83612	19.23649	20.65056	286	-16.62	-30.37	-20.98	-9.18
287	11.40134	19.05068	20.52045	287	-16.12	-30.79	-20.84	-9.18
288	11.01672	18.96622	20.37175	288	-14.93	-31.17	-20.54	-9.19
289	10.699	18.93243	20.27881	289	-14.82	-31.48	-20.23	-9.19
290	10.61538	18.93243	20.1487	290	-14.99	-31.73	-19.95	-9.17
291	10.61538	18.96622	20.09294	291	-14.97	-31.94	-19.74	-9.15
292	10.71572	19	20.1487	292	-14.71	-32.07	-19.61	-9.14
293	10.8495	19.05068	20.1487	293	-14.39	-32.16	-19.56	-9.14
294	11.10033	19.11824	20.22305	294	-14.03	-32.21	-19.59	-9.15
295	11.41806	19.18581	20.4461	295	-13.32	-32.21	-19.63	-9.15
296	11.75251	19.27027	20.76208	296	-12.67	-32.2	-19.69	-9.17

297	12.1204	19.37162	21.11524	297	-11.97	-32.04	-19.77	-9.21
298	12.38796	19.40541	21.30112	298	-11.38	-31.86	-19.84	-9.25
299	12.68896	19.54054	21.43123	299	-11.15	-31.58	-19.96	-9.26
300	12.88963	19.59122	21.54275	300	-10.97	-31.35	-20.11	-9.28
301	13.00669	19.65878	21.71004	301	-10.49	-31.03	-20.06	-9.28
302	13.20736	19.59122	21.78439	302	-9.97	-30.75	-19.96	-9.28
303	13.27425	19.64189	21.74721	303	-9.8	-30.41	-19.76	-9.28
304	13.30769	19.69257	21.7658	304	-9.79	-30	-19.5	-9.27
305	13.42475	19.69257	21.7658	305	-9.67	-29.6	-19.24	-9.26
306	13.44147	19.70946	21.78439	306	-9.25	-29.31	-19.07	-9.24
307	13.50836	19.70946	21.71004	307	-13.22	-29.41	-19.51	-9.17
308	13.52508	19.59122	21.65428	308	-15.73	-29.71	-19.58	-9.13
309	13.30769	19.33784	21.50558	309	-16.18	-30.21	-19.45	-9.11
310	13.02341	19.18581	21.30112	310	-16.28	-30.64	-19.36	-9.09
311	12.7893	19.2027	21.04089	311	-15.36	-30.95	-19.33	-9.05
312	12.58863	19.15203	20.81784	312	-15.02	-31.28	-19.24	-9.03
313	12.47157	19.16892	20.85502	313	-15.15	-31.59	-19.12	-8.99
314	12.45485	19.28716	20.92937	314	-15.06	-31.8	-19.01	-8.94
315	12.57191	19.32095	21.09665	315	-14.83	-31.98	-18.95	-8.91
316	12.67224	19.35473	21.26394	316	-14.54	-32.13	-18.94	-8.87
317	12.7893	19.33784	21.39405	317	-14.24	-32.22	-18.97	-8.84
318	12.90635	19.33784	21.50558	318	-13.79	-32.24	-19.03	-8.82
319	13.02341	19.40541	21.65428	319	-13.31	-32.24	-19.14	-8.81
320	13.20736	19.35473	21.80297	320	-13.05	-32.11	-19.21	-8.8
321	13.44147	19.35473	21.98885	321	-12.48	-31.95	-19.17	-8.81
322	13.62542	19.28716	22.15613	322	-11.52	-31.76	-19.11	-8.83
323	13.77592	19.27027	22.23048	323	-10.88	-31.4	-19.02	-8.84
324	13.94314	19.28716	22.28625	324	-10.1	-31.03	-18.95	-8.87
325	14.04348	19.38851	22.30483	325	-9.58	-30.66	-18.87	-8.89
326	14.02676	19.47297	22.28625	326	-9.26	-30.26	-18.75	-8.87
327	14.07692	19.54054	22.28625	327	-9.14	-29.88	-18.59	-8.86
328	14.07692	19.55743	22.28625	328	-8.97	-29.48	-18.43	-8.86
329	13.99331	19.55743	22.23048	329	-8.84	-29.24	-18.29	-8.84
330	13.80936	19.55743	22.23048	330	-13.92	-29.36	-18.72	-8.75
331	13.47492	19.37162	21.95167	331	-15.45	-29.64	-18.88	-8.7
332	12.80602	19.11824	21.35688	332	-16.78	-30.04	-18.7	-8.73
333	11.71906	18.94932	20.68773	333	-16.49	-30.24	-18.6	-8.55
334	10.43144	18.91554	20.1487	334	-16.17	-30.44	-18.81	-7.58
335	9.12709	18.84797	19.64684	335	-15.67	-30.68	-18.71	-6.42
336	8.123746	18.76351	19.18216	336	-12.52	-30.96	-18.62	-5.36
337	7.688963	18.64527	18.81041	337	-12.83	-31.2	-18.56	-4.38
338	7.722408	18.45946	18.56877	338	-13.26	-31.32	-18.48	-3.54
339	8.023411	18.30743	18.42007	339	-13.47	-31.37	-18.39	-2.85
340	8.424749	18.30743	18.28996	340	-13.25	-31.36	-18.37	-2.4
341	8.926421	18.30743	18.27138	341	-12.83	-31.32	-18.34	-2.16

342	9.528428	18.27365	18.51301	342	-12.07	-31.26	-18.3	-2.05
343	10.09699	18.25676	18.95911	343	-11.14	-31.2	-18.24	-2.03
344	10.58194	18.22297	19.5539	344	-10.21	-31.1	-18.21	-2.06
345	10.98328	18.22297	20.07435	345	-9.77	-30.9	-18.11	-2.13
346	11.26756	18.35811	20.48327	346	-9.06	-30.66	-17.99	-2.17
347	11.56856	18.49324	20.85502	347	-8.46	-30.31	-17.86	-2.21
348	11.90301	18.62838	21.07807	348	-8.04	-29.96	-17.64	-2.25
349	12.18729	18.78041	21.20818	349	-7.6	-29.61	-17.41	-2.29
350	12.40468	18.86486	21.30112	350	-7.22	-29.21	-17.23	-2.32
351	12.53846	18.94932	21.44981	351	-7.41	-28.82	-17	-2.34
352	12.60535	18.96622	21.54275	352	-10.65	-28.85	-17.26	-2.3
353	12.62207	19.05068	21.63569	353	-13.91	-29.16	-17.71	-2.22
354	12.55518	19.05068	21.69145	354	-14.59	-29.68	-17.63	-2.2
355	12.4214	19.11824	21.67286	355	-14.71	-30.1	-17.54	-2.2
356	12.20401	19.23649	21.6171	356	-14.73	-30.47	-17.47	-2.21
357	12.02007	19.32095	21.59851	357	-14.87	-30.85	-17.41	-2.22
358	11.90301	19.37162	21.67286	358	-14.29	-31.1	-17.38	-2.24
359	11.8194	19.45608	21.74721	359	-13.66	-31.36	-17.27	-2.25
360	11.80268	19.52365	21.72862	360	-13.94	-31.58	-17.05	-2.25
361	11.58528	19.55743	21.82156	361	-13.97	-31.73	-16.85	-2.24
362	11.28428	19.55743	21.95167	362	-13.62	-31.82	-16.72	-2.23
363	11.16722	19.57432	22.02602	363	-13.3	-31.88	-16.67	-2.23
364	11.26756	19.625	22.0632	364	-12.99	-31.9	-16.69	-2.22
365	11.51839	19.69257	22.2119	365	-12.33	-31.84	-16.78	-2.21
366	11.80268	19.74324	22.30483	366	-11.29	-31.76	-16.97	-2.2
367	12.22074	19.74324	22.45353	367	-10.25	-31.63	-17.13	-2.22
368	12.70569	19.77703	22.62082	368	-9.68	-31.4	-17.06	-2.26
369	13.05686	19.79392	22.73234	369	-9.63	-31.01	-16.95	-2.27
370	13.3913	19.74324	22.80669	370	-9.44	-30.56	-16.81	-2.25
371	13.67559	19.81081	22.80669	371	-7.95	-30.18	-16.64	-2.28
372	13.89298	19.86149	22.84387	372	-7.7	-29.73	-16.43	-2.32
373	14.11037	19.86149	22.76952	373	-7.6	-29.29	-16.22	-2.31
374	14.31104	19.81081	22.75093	374	-10.77	-29.09	-16.48	-2.27
375	14.39465	19.72635	22.63941	375	-13.78	-29.43	-17.08	-2.28
376	14.2107	19.60811	22.34201	376	-15.06	-29.8	-16.62	-2.4
377	13.70903	19.52365	21.80297	377	-14.8	-29.88	-16.26	-2.43
378	13.17391	19.47297	21.24535	378	-15.19	-29.82	-16.15	-2.43
379	12.85619	19.4223	20.96654	379	-14.73	-29.88	-16.15	-2.44
380	12.70569	19.45608	20.98513	380	-14.92	-30.07	-16.18	-2.46
381	12.83946	19.45608	21.18959	381	-15.08	-30.36	-16.21	-2.49
382	13.02341	19.50676	21.44981	382	-14.41	-30.66	-16.18	-2.44
383	13.22408	19.47297	21.72862	383	-14.11	-30.9	-16.16	-2.42
384	13.44147	19.43919	21.97026	384	-13.01	-31.13	-16.16	-2.39
385	13.65886	19.4223	22.13755	385	-13.35	-31.42	-16.09	-2.38
386	13.87625	19.45608	22.24907	386	-13.48	-31.53	-15.97	-2.35

387	14.02676	19.47297	22.32342	387	-13.34	-31.55	-15.86	-2.31
388	13.99331	19.48986	22.41636	388	-13.14	-31.56	-15.85	-2.29
389	13.89298	19.48986	22.45353	389	-12.82	-31.53	-15.9	-2.27
390	13.80936	19.50676	22.47212	390	-12.21	-31.47	-15.99	-2.25
391	13.84281	19.54054	22.62082	391	-10.83	-31.29	-16.2	-2.24
392	13.94314	19.54054	22.71375	392	-9.93	-31.18	-16.28	-2.28
393	14.02676	19.55743	22.82528	393	-9.43	-30.91	-16.21	-2.31
394	14.16054	19.59122	22.9368	394	-9.21	-30.4	-16.16	-2.31
395	14.3612	19.64189	22.9368	395	-8.46	-30.06	-16.14	-2.28
396	14.46154	19.69257	22.89963	396	-7.58	-29.59	-15.96	-2.27
397	14.56187	19.69257	22.95539	397	-9.42	-29.17	-15.83	-2.23
398	14.69565	19.65878	22.91822	398	-13.15	-29.38	-16.43	-2.2
399	14.77926	19.59122	22.88104	399	-14.45	-30.03	-16.7	-2.22
400	14.84615	19.625	22.84387	400	-14.73	-30.39	-16.19	-2.29
401	14.91304	19.67568	22.73234	401	-14.75	-30.53	-15.89	-2.37
402	15.09699	19.65878	22.62082	402	-14.63	-30.7	-15.81	-2.41
403	15.24749	19.60811	22.67658	403	-13.28	-30.76	-15.9	-2.41
404	15.24749	19.60811	22.65799	404	-13.35	-30.98	-15.88	-2.39
405	15.24749	19.60811	22.63941	405	-13.47	-31.17	-15.85	-2.38
406	15.23077	19.70946	22.60223	406	-13.38	-31.27	-15.81	-2.36
407	15.1806	19.72635	22.56506	407	-13.37	-31.28	-15.74	-2.32
408	15.19732	19.76014	22.65799	408	-13.24	-31.29	-15.74	-2.3
409	15.23077	19.79392	22.67658	409	-12.52	-31.25	-15.82	-2.29
410	15.23077	19.79392	22.75093	410	-10.39	-30.89	-16.08	-2.29
411	15.24749	19.8277	22.89963	411	-9.86	-30.59	-16.23	-2.27
412	15.24749	19.87838	22.91822	412	-9.7	-30.23	-16.06	-2.23
413	15.21405	19.87838	22.99257	413	-10.57	-29.88	-15.92	-2.19
414	15.29766	19.89527	23.04833	414	-10.45	-29.5	-15.67	-2.15
415	15.3311	19.86149	23.02974	415	-10.7	-29.21	-15.56	-2.14
416	15.36455	19.89527	23.02974	416	-13.76	-29.62	-16.29	-2.16
417	15.43144	19.86149	22.97398	417	-15.24	-30.15	-16.47	-2.22
418	15.59866	19.79392	22.91822	418	-15.49	-30.45	-16.06	-2.31
419	15.79933	19.81081	22.7881	419	-15.13	-30.48	-15.75	-2.39
420	15.98328	19.8277	22.86245	420	-13.81	-30.44	-15.59	-2.4
421	16.08361	19.87838	22.91822	421	-13.79	-30.67	-15.56	-2.38
422	16.01672	19.86149	22.99257	422	-13.81	-30.81	-15.65	-2.37
423	15.89967	19.8277	22.97398	423	-13.61	-30.88	-15.65	-2.35
424	15.79933	19.86149	22.97398	424	-13.4	-30.93	-15.63	-2.33
425	15.74916	19.86149	22.97398	425	-12.4	-30.98	-15.69	-2.31
426	15.66555	19.87838	23.02974	426	-10.58	-30.86	-15.83	-2.3
427	15.59866	19.84459	23.12268	427	-10.81	-30.63	-15.72	-2.28
428	15.54849	19.91216	23.2342	428	-10.41	-30.37	-15.36	-2.23
429	15.59866	19.91216	23.2342	429	-10.17	-29.96	-15	-2.2
430	15.71572	19.94595	23.17844	430	-11.2	-29.51	-14.76	-2.17
431	15.78261	19.91216	23.10409	431	-12.74	-29.57	-15.13	-2.17

432	15.71572	19.91216	22.9368	432	-14.7	-30.15	-15.63	-2.25
433	15.58194	19.86149	22.82528	433	-14.4	-30.4	-15.28	-2.38
434	15.46488	19.8277	22.7881	434	-15.26	-30.44	-15.17	-2.63
435	15.51505	19.79392	22.76952	435	-13.36	-30.11	-15.08	-2.65
436	15.58194	19.8277	22.7881	436	-12.56	-30.3	-14.98	-2.53
437	15.56522	19.8277	22.75093	437	-12.68	-30.48	-15.05	-2.46
438	15.53177	19.76014	22.7881	438	-12.63	-30.57	-15.09	-2.41
439	15.49833	19.69257	22.80669	439	-12.59	-30.61	-15.07	-2.36
440	15.46488	19.65878	22.89963	440	-12.39	-30.65	-15.18	-2.33
441	15.46488	19.72635	23.02974	441	-11.63	-30.63	-15.4	-2.31
442	15.44816	19.79392	23.10409	442	-11.38	-30.4	-15.67	-2.27
443	15.36455	19.76014	23.14126	443	-10.26	-29.98	-15.22	-2.23
444	15.3311	19.76014	23.17844	444	-8.95	-29.64	-14.77	-2.2
445	15.43144	19.76014	23.2342	445	-8.94	-29.22	-14.5	-2.17
446	15.61538	19.77703	23.2342	446	-10.17	-28.8	-14.36	-2.15
447	15.83278	19.77703	23.15985	447	-10.09	-28.34	-14.3	-2.1

Adsorp_exp_7

Experiment type: Adsorption controlled experiment. There was not regolith in this experiment, just an empty petri dish. The humidity buffer was LiCl which has a RH of 11.31 at 0 degrees Celsius. Temperature around the sample was as close to -20 degrees Celsius as possible, cooled with liquid nitrogen and chiller system.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= humidity buffer 3= atmosphere 4= sample

Mass Min.	Mass	RH Min.	Ch02	Ch03	Ch04	T Min.	Ch01	Ch02	Ch03	Ch04
0	4.73	0	35.33779	52.48649	11.56134	0	-6.8	-16.06	-5.87	-14.05
2	4.31	1	35.68896	53.41554	10.13011	1	-9.32	-21.22	-6.28	-14.08
4	4.24	2	35.72241	52.43581	8.643123	2	-8.26	-20.08	-6.85	-13.97
6	4.21	3	35.95652	51.27027	8.011152	3	-6.41	-19.2	-6.4	-13.78
8	4.2	4	36.32441	48.04392	7.899628	4	-6.72	-19.14	-6.1	-13.68
10	4.2	5	36.19064	40.67905	7.509294	5	-10.41	-19.1	-6.11	-13.8
12	4.22	6	34.46823	32.25	7.026022	6	-8.73	-19.65	-6.16	-13.72
14	4.26	7	30.85619	25.13851	6.840149	7	-8.29	-19.95	-5.84	-13.62
16	4.28	8	26.14047	19.20946	6.747212	8	-7.89	-20.27	-5.8	-13.54
18	4.3	9	21.20736	14.42905	6.096654	9	-7.9	-20.54	-5.75	-13.49

20	4.28	10	16.67559	10.35811	4.851301	10	-7.97	-20.76	-5.74	-13.45
22	4.28	11	12.96321	7.317568	3.438662	11	-8.77	-21	-5.76	-13.4
24	4.26	12	10.10368	5.222973	2.156134	12	-8.19	-21.19	-5.76	-13.37
26	4.27	13	7.762542	3.212838	1.040892	13	-6.6	-21.37	-5.79	-13.33
28	4.29	14	5.80602	1.101351	0.167286	14	-5.68	-21.42	-5.7	-13.29
30	4.28	15	4.183946	0.790541	0.539033	15	-6.14	-20.58	-5.87	-13.26
32	4.29	16	2.67893	2.547297	1.171004	16	-7.34	-20.21	-6	-13.21
34	4.28	17	1.240803	4.236486	1.858736	17	-8.1	-20.07	-5.99	-13.16
36	4.28	18	0.080268	5.807432	2.583643	18	-8.47	-19.94	-5.95	-13.11
38	4.29	19	1.250836	7.293919	3.289963	19	-8.91	-19.7	-5.77	-13.08
40	4.29	20	2.036789	8.594595	3.903346	20	-9.44	-19.51	-5.81	-13.03
42	4.3	21	2.270903	9.050676	4.739777	21	-9.51	-20.58	-5.94	-13.04
44	4.29	22	2.505017	8.611486	5.724907	22	-7.79	-21.25	-5.88	-13.07
46	4.29	23	3.090301	8.949324	6.505576	23	-5.99	-21.4	-5.92	-13.09
48	4.29	24	3.842809	10.23311	7.304833	24	-10.05	-20.94	-6.08	-13.09
50	4.29	25	4.695652	11.63514	8.011152	25	-10.66	-21.05	-6.26	-13.07
52	4.29	26	5.665552	12.86824	8.438662	26	-10.49	-20.74	-6.4	-13
54	4.29	27	6.719064	13.89865	8.754647	27	-10.74	-20.58	-6.51	-13
56	4.29	28	7.622074	14.69257	9.033457	28	-10.4	-20.19	-6.55	-12.98
58	4.29	29	8.324415	15.25	9.312268	29	-9.82	-19.63	-6.57	-12.93
60	4.29	30	8.859532	15.63851	9.665428	30	-9.95	-20.01	-6.67	-12.91
62	4.29	31	9.160535	15.84122	9.962825	31	-9.53	-20.72	-6.88	-12.95
64	4.3	32	9.344482	15.89189	10.2974	32	-6.56	-21.22	-6.81	-13.01
66	4.29	33	9.428094	16.14527	10.81784	33	-8.59	-21.18	-6.83	-13.05
68	4.29	34	9.545151	16.44932	11.33829	34	-10.39	-21.35	-6.95	-13.08
70	4.29	35	9.929766	16.7027	11.69145	35	-10.7	-20.71	-6.92	-13.09
72	4.28	36	10.46488	16.97297	11.97026	36	-11.3	-20.73	-6.91	-13.09
74	4.29	37	11	17.29392	12.30483	37	-11.31	-20.56	-6.93	-13.1
76	4.29	38	11.51839	17.59797	12.50929	38	-11.14	-20.32	-6.97	-13.1
78	4.29	39	11.9699	17.83446	12.65799	39	-10.93	-19.83	-6.99	-13.09
80	4.28	40	12.25418	17.96959	12.67658	40	-10.84	-19.47	-7.11	-13.08
82	4.28	41	12.33779	18.12162	12.75093	41	-10	-20.15	-7.5	-13.11
84	4.28	42	12.23746	18.15541	12.84387	42	-8.43	-20.86	-7.73	-13.16
86	4.28	43	12.08696	18.20608	13.02974	43	-7.95	-20.85	-7.68	-13.19
88	4.29	44	11.86957	18.25676	13.32714	44	-10.37	-21.39	-7.82	-13.18
90	4.28	45	11.6689	18.27365	13.5316	45	-11.82	-21.2	-7.87	-13.15
92	4.28	46	11.85284	18.39189	13.77323	46	-11.97	-20.97	-7.81	-13.1
94	4.28	47	12.17057	18.52703	14.03346	47	-11.79	-20.54	-7.75	-13.05
96	4.28	48	12.57191	18.61149	14.12639	48	-11.64	-20.42	-7.69	-13.02
98	4.28	49	12.9398	18.69595	14.27509	49	-11.34	-20.07	-7.69	-12.98
100	4.29	50	13.22408	18.74662	14.42379	50	-11.05	-19.65	-7.7	-12.94
102	4.28	51	13.3913	18.78041	14.46097	51	-10.75	-19.57	-7.87	-12.93
104	4.28	52	13.29097	18.78041	14.51673	52	-10.23	-20.33	-8.42	-12.96
106	4.28	53	13.10702	18.72973	14.49814	53	-7.66	-20.87	-8.49	-13.02
108	4.28	54	12.85619	18.72973	14.49814	54	-7.75	-20.95	-8.43	-13.06

110	4.28	55	12.48829	18.74662	14.7026	55	-9.56	-21.41	-8.52	-13.09
112	4.29	56	12.22074	18.7973	14.94424	56	-11.39	-21.77	-8.63	-13.11
114	4.28	57	12.30435	18.83108	15.18587	57	-11.94	-21.59	-8.65	-13.14
116	4.28	58	12.67224	18.86486	15.42751	58	-12.06	-20.91	-8.57	-13.15
118	4.28	59	13.07358	18.94932	15.55762	59	-11.86	-20.52	-8.47	-13.14
120	4.28	60	13.44147	19	15.74349	60	-11.51	-20.48	-8.45	-13.13
122	4.29	61	13.79264	19.01689	15.76208	61	-11.09	-20.01	-8.45	-13.13
124	4.29	62	14.04348	19.05068	15.89219	62	-10.84	-19.52	-8.45	-13.1
126	4.28	63	14.17726	19.03378	15.91078	63	-10.6	-19.89	-8.73	-13.08
128	4.27	64	14.0602	19.05068	15.89219	64	-9.62	-20.78	-9.26	-13.1
130	4.28	65	13.79264	19.05068	15.85502	65	-8.32	-21.04	-9.24	-13.09
132	4.27	66	13.44147	19.03378	15.87361	66	-10.5	-21.51	-9.38	-13.08
134	4.28	67	13.17391	19.03378	16.07807	67	-11.35	-21.74	-9.52	-13.08
136	4.3	68	13.25753	19.10135	16.30112	68	-12.26	-21.42	-9.51	-13.06
138	4.29	69	13.47492	19.10135	16.41264	69	-12.14	-21.13	-9.42	-13.03
140	4.29	70	13.7592	19.11824	16.6171	70	-12.05	-20.85	-9.3	-13.01
142	4.29	71	14.14381	19.18581	16.69145	71	-11.86	-20.53	-9.2	-12.98
144	4.28	72	14.51171	19.23649	16.74721	72	-11.58	-20.17	-9.15	-12.96
146	4.28	73	14.77926	19.23649	16.71004	73	-11.16	-19.75	-9.12	-12.95
148	4.28	74	14.92977	19.23649	16.69145	74	-11.28	-19.56	-9.15	-12.95
150	4.28	75	14.86288	19.21959	16.7658	75	-9.58	-20.03	-9.7	-12.98
152	4.29	76	14.7291	19.23649	16.89591	76	-9.14	-21.04	-10.07	-13.03
154	4.29	77	14.51171	19.23649	16.89591	77	-8.69	-21.21	-10.01	-13.05
156	4.27	78	14.17726	19.23649	16.9145	78	-10.34	-21.77	-10.18	-13.05
158	4.28	79	13.92642	19.27027	17.08178	79	-11.34	-21.85	-10.31	-13.04
160	4.28	80	13.94314	19.28716	17.19331	80	-12.2	-20.93	-10.22	-13.04
162	4.28	81	14.16054	19.32095	17.13755	81	-12.38	-21.14	-10.17	-13.04
164	4.28	82	14.49498	19.33784	17.24907	82	-12.21	-20.85	-10.02	-13.05
166	4.29	83	14.79599	19.33784	17.2119	83	-11.97	-20.6	-9.88	-13.05
168	4.28	84	15.06355	19.33784	17.19331	84	-11.51	-20.22	-9.81	-13.03
170	4.28	85	15.3311	19.37162	17.23048	85	-11.24	-19.78	-9.76	-13.01
172	4.28	86	15.48161	19.32095	17.19331	86	-11.36	-19.63	-9.82	-12.99
174	4.27	87	15.39799	19.30405	17.13755	87	-10.23	-20.49	-10.37	-13
176	4.28	88	15.19732	19.40541	17.11896	88	-8.74	-21.3	-10.6	-13.04
178	4.28	89	14.89632	19.4223	17.15613	89	-9.99	-21.38	-10.72	-13.05
180	4.29	90	14.5786	19.40541	17.17472	90	-11.67	-21.98	-10.97	-13.05
182	4.27	91	14.47826	19.37162	17.36059	91	-11.85	-21.41	-10.9	-13.07
184	4.28	92	14.67893	19.35473	17.50929	92	-12.39	-21.54	-10.78	-13.08
186	4.28	93	14.94649	19.38851	17.60223	93	-12.36	-21.06	-10.61	-13.08
188	4.28	94	15.23077	19.4223	17.65799	94	-12.16	-20.69	-10.44	-13.07
190	4.29	95	15.46488	19.43919	17.63941	95	-11.87	-20.43	-10.34	-13.03
192	4.28	96	15.66555	19.48986	17.62082	96	-11.51	-20.21	-10.29	-13
194	4.28	97	15.78261	19.4223	17.50929	97	-11.17	-19.76	-10.27	-12.96
196	4.28	98	15.83278	19.38851	17.36059	98	-11	-19.53	-10.33	-12.93
198	4.28	99	15.76589	19.4223	17.41636	99	-10.95	-20.49	-10.95	-12.97

200	4.28	100	15.54849	19.47297	17.41636	100	-9.11	-21.43	-11.21	-13.01
202	4.28	101	15.26421	19.48986	17.41636	101	-9.47	-21.36	-11.18	-13.03
204	4.29	102	14.99666	19.43919	17.56506	102	-11.58	-21.76	-11.34	-13.04
206	4.29	103	14.82943	19.37162	17.63941	103	-12.04	-22.2	-11.47	-13.06
208	4.28	104	14.82943	19.37162	17.67658	104	-12.44	-21.74	-11.4	-13.09
210	4.28	105	15.01338	19.4223	17.76952	105	-12.46	-21.39	-11.22	-13.12
212	4.28	106	15.29766	19.47297	17.84387	106	-11.81	-21.03	-11.04	-13.15
214	4.28	107	15.58194	19.47297	17.95539	107	-11.13	-20.51	-10.92	-13.17
216	4.29	108	15.8495	19.50676	17.97398	108	-11.02	-20.34	-10.83	-13.17
218	4.29	109	16.06689	19.52365	18.04833	109	-10.99	-19.9	-10.77	-13.15
220	4.29	110	16.10033	19.50676	18.06691	110	-10.94	-19.5	-10.76	-13.11
222	4.28	111	15.68227	19.4223	18.02974	111	-11.36	-20.51	-11.33	-13.1
224	4.28	112	15.08027	19.33784	18.04833	112	-9.47	-21.38	-11.77	-13.13
226	4.28	113	14.66221	19.32095	17.97398	113	-10.16	-21.34	-11.84	-13.15
228	4.28	114	14.29431	19.30405	18.06691	114	-11.22	-21.9	-12.06	-13.16
230	4.29	115	14.22742	19.32095	18.27138	115	-9.23	-21.72	-11.84	-13.16
232	4.29	116	14.49498	19.37162	18.43866	116	-10.53	-21.9	-11.59	-13.13
234	4.28	117	14.79599	19.37162	18.60595	117	-11.55	-21.89	-11.49	-13.12
236	4.28	118	15.13043	19.43919	18.56877	118	-11.16	-21.64	-11.41	-13.1
238	4.28	119	15.44816	19.48986	18.60595	119	-10.63	-21.24	-11.32	-13.07
240	4.28	120	15.78261	19.52365	18.66171	120	-10.17	-20.67	-11.21	-13.08
242	4.28	121	16.08361	19.57432	18.60595	121	-10.19	-20.08	-11.11	-13.09
244	4.29	122	16.23411	19.54054	18.47584	122	-10.49	-19.61	-11.08	-13.07
246	4.29	123	16.28428	19.43919	18.42007	123	-10.66	-19.47	-11.18	-13.04
248	4.29	124	16.1505	19.35473	18.43866	124	-10.95	-20.71	-11.94	-13.08
250	4.28	125	15.91639	19.40541	18.3829	125	-8.95	-21.21	-12.2	-13.13
252	4.29	126	15.66555	19.48986	18.45725	126	-10.13	-21.48	-12.36	-13.14
254	4.28	127	15.46488	19.50676	18.64312	127	-9.22	-21.62	-12.38	-13.14
256	4.29	128	15.39799	19.50676	18.84758	128	-7.68	-21.37	-12.03	-13.11
258	4.3	129	15.63211	19.52365	18.90335	129	-9.77	-21.78	-11.83	-13.11
260	4.29	130	15.91639	19.55743	18.95911	130	-10.79	-21.94	-11.74	-13.08
262	4.29	131	16.08361	19.55743	19.03346	131	-10.57	-21.53	-11.72	-13.07
264	4.29	132	16.28428	19.60811	19.07063	132	-9.82	-21.13	-11.64	-13.03
266	4.29	133	16.46823	19.60811	18.99628	133	-8.99	-20.64	-11.51	-13
268	4.29	134	16.56856	19.625	19.01487	134	-8.96	-20.1	-11.37	-12.96
270	4.29	135	16.60201	19.60811	18.99628	135	-9.74	-19.53	-11.33	-12.96
272	4.3	136	16.46823	19.47297	18.829	136	-9.26	-19.01	-11.35	-12.96
274	4.29	137	15.83278	19.32095	18.62454	137	-10.06	-18.64	-11.35	-12.97
276	4.29	138	14.64548	19.2027	18.40149	138	-11.06	-19.69	-11.76	-13.06
278	4.29	139	13.32441	19.06757	18.30855	139	-10.66	-20.31	-12.43	-13.17
280	4.28	140	12.45485	18.89865	18.32714	140	-10.37	-21.16	-12.67	-13.26
282	4.28	141	12.17057	18.74662	18.28996	141	-9.14	-21.45	-12.59	-13.32
284	4.29	142	12.10368	18.72973	18.15985	142	-9.52	-21.57	-12.62	-13.33
286	4.3	143	12.1204	18.84797	18.21561	143	-11.36	-22.07	-12.71	-13.32
288	4.3	144	12.35452	18.94932	18.34572	144	-12.17	-22.16	-12.74	-13.3

290	4.3	145	12.77258	19.06757	18.60595	145	-11.87	-22.81	-12.77	-13.3
292	4.3	146	13.37458	19.15203	18.86617	146	-11.74	-22.59	-12.62	-13.3
294	4.3	147	13.95987	19.2027	18.90335	147	-11.21	-22.2	-12.49	-13.28
296	4.3	148	14.56187	19.25338	19.03346	148	-10.65	-21.77	-12.37	-13.26
298	4.3	149	15.09699	19.32095	19.10781	149	-9.91	-21.25	-12.23	-13.25
300	4.32	150	15.46488	19.38851	19.08922	150	-9.07	-20.71	-12.06	-13.22
302	4.33	151	15.74916	19.43919	19.14498	151	-9.33	-20.15	-11.93	-13.2
		152	15.91639	19.40541	19.16357	152	-9.38	-19.53	-11.86	-13.17
		153	15.93311	19.4223	19.12639	153	-10.99	-20.47	-12.17	-13.2
		154	15.63211	19.4223	19.18216	154	-9.8	-21.04	-12.93	-13.26
		155	15.34783	19.48986	19.20074	155	-8.31	-21.32	-13.18	-13.3
		156	15.29766	19.45608	19.34944	156	-6.7	-20.97	-12.91	-13.31
		157	15.43144	19.4223	19.47955	157	-6.88	-21.15	-12.69	-13.31
		158	15.64883	19.48986	19.44238	158	-8.55	-21.58	-12.54	-13.3
		159	15.91639	19.48986	19.47955	159	-10.02	-21.82	-12.48	-13.26
		160	16.18395	19.57432	19.49814	160	-8.88	-21.37	-12.42	-13.2
		161	16.41806	19.625	19.47955	161	-8.14	-20.93	-12.3	-13.15
		162	16.6689	19.65878	19.5539	162	-7.72	-20.49	-12.16	-13.1
		163	16.8194	19.69257	19.57249	163	-8.02	-20.06	-12.03	-13.04
		164	16.8194	19.65878	19.49814	164	-8.87	-19.69	-11.95	-12.99
		165	16.63545	19.54054	19.47955	165	-11.01	-20.48	-12.41	-13
		166	16.25084	19.27027	19.46097	166	-10.01	-21.44	-13.17	-13.05
		167	15.91639	19.11824	19.46097	167	-8.48	-21.38	-13.41	-13.1
		168	15.66555	19.15203	19.62825	168	-7.99	-21.47	-13.37	-13.09
		169	15.49833	19.23649	19.73978	169	-7.17	-21.43	-13.09	-13.08
		170	15.54849	19.32095	19.73978	170	-8.5	-21.83	-12.91	-13.07
		171	15.73244	19.37162	19.75836	171	-10.26	-22.13	-12.8	-13.05
		172	16.03344	19.43919	19.86989	172	-9.28	-21.8	-12.74	-13.03
		173	16.301	19.47297	19.79554	173	-8.37	-21.33	-12.63	-13.02
		174	16.55184	19.57432	19.77695	174	-7.97	-20.95	-12.5	-13
		175	16.75251	19.65878	19.83271	175	-7.57	-20.51	-12.37	-12.97
		176	16.88629	19.70946	19.75836	176	-8.01	-20.06	-12.25	-12.95
		177	16.93645	19.64189	19.68401	177	-8.56	-19.6	-12.18	-12.94
		178	16.93645	19.54054	19.73978	178	-10.04	-19.81	-12.25	-12.94
		179	16.71906	19.54054	19.73978	179	-11	-21.09	-13.07	-13
		180	16.41806	19.57432	19.75836	180	-8.56	-21.01	-13.61	-13.07
		181	16.21739	19.55743	19.83271	181	-7.95	-21.37	-13.76	-13.12
		182	16.06689	19.54054	19.8513	182	-7.04	-21.33	-13.46	-13.15
		183	16.1505	19.57432	19.98141	183	-7.68	-21.59	-13.25	-13.19
		184	16.35117	19.64189	20.01859	184	-9.65	-22.12	-13.1	-13.2
		185	16.55184	19.64189	20.07435	185	-10.27	-22.1	-13.08	-13.23
		186	16.71906	19.72635	20.13011	186	-9.23	-21.66	-13.01	-13.22
		187	16.90301	19.76014	20.03717	187	-8.35	-21.22	-12.87	-13.2
		188	17.07023	19.76014	20.01859	188	-7.73	-20.79	-12.72	-13.16
		189	17.18729	19.74324	19.96283	189	-7.95	-20.35	-12.57	-13.11

190	17.25418	19.74324	19.94424	190	-8.22	-19.87	-12.45	-13.05
191	17.2709	19.67568	19.86989	191	-9.22	-19.51	-12.37	-13.01
192	17.23746	19.64189	19.96283	192	-10.77	-20.88	-12.75	-13.04
193	17.05351	19.65878	19.98141	193	-9.51	-21.37	-13.58	-13.11
194	16.80268	19.64189	19.90706	194	-7.59	-21.24	-13.89	-13.16
195	16.65217	19.65878	20.03717	195	-6.84	-21.24	-13.64	-13.19
196	16.68562	19.67568	20.16729	196	-7.04	-21.44	-13.47	-13.22
197	16.78595	19.69257	20.20446	197	-8.7	-22.02	-13.35	-13.24
198	16.88629	19.74324	20.35316	198	-10.52	-22.3	-13.35	-13.25
199	17.02007	19.76014	20.2974	199	-9.72	-22.02	-13.35	-13.21
200	17.15385	19.77703	20.27881	200	-8.07	-21.39	-13.21	-13.17
201	17.30435	19.81081	20.27881	201	-7.29	-20.9	-13.02	-13.12
202	17.40468	19.79392	20.2974	202	-7.31	-20.54	-12.85	-13.09
203	17.4214	19.79392	20.26022	203	-7.7	-20.08	-12.71	-13.06
204	17.40468	19.76014	20.24164	204	-9.05	-19.62	-12.62	-13.01
205	17.35452	19.70946	20.13011	205	-10.38	-20.42	-12.75	-13.02
206	17.15385	19.65878	20.13011	206	-10.88	-21.64	-13.65	-13.08
207	16.8194	19.60811	20.1487	207	-8.44	-21.35	-14.26	-13.13
208	16.58528	19.625	20.26022	208	-7.11	-21.39	-14.09	-13.14
209	16.51839	19.67568	20.40892	209	-6.68	-21.42	-13.83	-13.13
210	16.58528	19.70946	20.52045	210	-7.4	-21.77	-13.69	-13.15
211	16.75251	19.64189	20.65056	211	-9.22	-22.33	-13.59	-13.18
212	16.86957	19.72635	20.63197	212	-8.81	-22.16	-13.53	-13.2
213	16.9699	19.74324	20.63197	213	-7.35	-21.58	-13.44	-13.19
214	17.1204	19.79392	20.63197	214	-6.91	-21.24	-13.31	-13.18
215	17.2709	19.79392	20.63197	215	-6.86	-20.93	-13.16	-13.13
216	17.35452	19.76014	20.61338	216	-7.27	-20.47	-13	-13.11
217	17.43813	19.74324	20.55762	217	-8.83	-19.85	-12.81	-13.01
218	17.43813	19.70946	20.46468	218	-9.61	-19.52	-12.68	-12.91
219	17.33779	19.67568	20.40892	219	-10.81	-20.55	-12.92	-12.9
220	17.13712	19.57432	20.35316	220	-8.61	-20.62	-13.85	-12.9
221	16.95318	19.52365	20.48327	221	-7	-20.63	-13.85	-12.92
222	16.88629	19.60811	20.55762	222	-6.13	-20.6	-13.69	-12.95
223	16.95318	19.67568	20.63197	223	-7.13	-21.16	-13.59	-12.95
224	17.07023	19.74324	20.70632	224	-8.82	-21.93	-13.57	-12.97
225	17.18729	19.79392	20.66914	225	-8.04	-21.48	-13.48	-13
226	17.28763	19.79392	20.66914	226	-7	-21.09	-13.39	-12.99
227	17.37124	19.79392	20.65056	227	-6.64	-20.85	-13.3	-13.01
228	17.48829	19.77703	20.55762	228	-6.81	-20.62	-13.2	-13.01
229	17.57191	19.76014	20.53903	229	-7.05	-20.32	-13.08	-13.02
230	17.57191	19.77703	20.55762	230	-8.83	-19.84	-12.96	-13.03
231	17.50502	19.72635	20.53903	231	-9.64	-19.72	-12.87	-13.03
232	17.33779	19.69257	20.55762	232	-11.11	-21.18	-13.3	-13.06
233	17.10368	19.60811	20.57621	233	-9.84	-21.27	-14.32	-13.13
234	16.90301	19.60811	20.61338	234	-7.88	-21.29	-14.29	-13.12

235	16.80268	19.67568	20.72491	235	-6.89	-21.26	-14.09	-13.16
236	16.78595	19.72635	20.74349	236	-7.15	-21.52	-14	-13.21
237	16.86957	19.70946	20.70632	237	-9.44	-22.53	-13.95	-13.25
238	17.02007	19.72635	20.79926	238	-9.04	-22.13	-13.88	-13.28
239	17.15385	19.76014	20.81784	239	-7.84	-21.71	-13.8	-13.29
240	17.30435	19.81081	20.83643	240	-7.11	-21.36	-13.68	-13.26
241	17.43813	19.77703	20.72491	241	-7.02	-21.1	-13.55	-13.21
242	17.50502	19.79392	20.78067	242	-7.04	-20.78	-13.42	-13.18
243	17.58863	19.84459	20.85502	243	-8.08	-20.34	-13.28	-13.13
244	17.58863	19.76014	20.78067	244	-9.16	-19.89	-13.16	-13.07
245	17.45485	19.72635	20.70632	245	-9.83	-19.69	-13.1	-13.03
246	17.1204	19.60811	20.5948	246	-10.96	-20.95	-13.47	-13.06
247	16.71906	19.50676	20.57621	247	-9.76	-21.14	-14.53	-13.13
248	16.45151	19.52365	20.5948	248	-7.95	-21.18	-14.51	-13.19
249	16.40134	19.54054	20.63197	249	-7.04	-21.14	-14.28	-13.23
250	16.51839	19.625	20.70632	250	-7.41	-21.5	-14.17	-13.27
251	16.6689	19.67568	20.81784	251	-9.54	-22.65	-14.13	-13.3
252	16.83612	19.74324	20.85502	252	-9	-22.16	-14.04	-13.31
253	17.00334	19.72635	20.85502	253	-7.92	-21.61	-13.92	-13.3
254	17.1204	19.74324	20.92937	254	-7.28	-21.31	-13.82	-13.3
255	17.28763	19.76014	20.83643	255	-7.15	-21.08	-13.69	-13.25
256	17.43813	19.76014	20.66914	256	-7.17	-20.77	-13.56	-13.2
257	17.52174	19.76014	20.72491	257	-7.7	-20.35	-13.42	-13.17
258	17.48829	19.79392	20.83643	258	-8.93	-19.93	-13.26	-13.11
259	17.35452	19.69257	20.83643	259	-9.04	-19.58	-13.11	-13.05
260	17.08696	19.54054	20.65056	260	-9.7	-20.04	-13.11	-13.04
261	16.68562	19.4223	20.55762	261	-9.45	-21.09	-13.99	-13.11
262	16.36789	19.38851	20.55762	262	-7.95	-21.01	-14.44	-13.16
263	16.28428	19.45608	20.63197	263	-6.58	-20.76	-14.33	-13.16
264	16.41806	19.48986	20.66914	264	-7.42	-21.33	-14.24	-13.17
265	16.61873	19.60811	20.72491	265	-9.07	-22.08	-14.2	-13.19
266	16.83612	19.64189	20.70632	266	-8.57	-21.71	-14.12	-13.21
267	16.98662	19.67568	20.76208	267	-7.64	-21.41	-14.03	-13.22
268	17.13712	19.70946	20.79926	268	-7.24	-21.2	-13.92	-13.19
269	17.30435	19.72635	20.74349	269	-7.11	-20.96	-13.79	-13.15
270	17.45485	19.72635	20.79926	270	-7.11	-20.66	-13.65	-13.16
271	17.55518	19.79392	20.89219	271	-7.42	-20.32	-13.52	-13.18
272	17.57191	19.79392	20.87361	272	-8.05	-19.95	-13.38	-13.16
273	17.53846	19.72635	20.87361	273	-8.36	-19.53	-13.22	-13.15
274	17.48829	19.67568	20.81784	274	-9.44	-20.34	-13.38	-13.21
275	17.4214	19.65878	20.83643	275	-9.55	-21.41	-14.23	-13.27
276	17.35452	19.625	20.85502	276	-8.42	-21.82	-14.58	-13.31
277	17.37124	19.67568	20.85502	277	-7.16	-21.13	-14.45	-13.33
278	17.38796	19.72635	20.87361	278	-9.35	-22.46	-14.41	-13.33
279	17.52174	19.76014	20.91078	279	-8.76	-22.29	-14.45	-13.3

280	17.65552	19.77703	20.92937	280	-8.01	-21.59	-14.29	-13.25
281	17.68896	19.81081	20.85502	281	-7.71	-21.42	-14.15	-13.24
282	17.77258	19.84459	20.89219	282	-7.7	-21.16	-14.01	-13.26
283	17.83946	19.86149	20.96654	283	-7.88	-20.86	-13.88	-13.26
284	17.90635	19.86149	21.04089	284	-9	-20.52	-13.76	-13.24
285	17.87291	19.84459	21.05948	285	-9.61	-20.17	-13.61	-13.2
286	17.80602	19.77703	21.04089	286	-9.63	-19.82	-13.44	-13.14
287	17.68896	19.64189	20.89219	287	-9.87	-19.43	-13.29	-13.08
288	17.53846	19.48986	20.74349	288	-8.95	-19.28	-13.19	-13.08
289	17.40468	19.45608	20.61338	289	-8.4	-19.48	-13.23	-13.07
290	17.32107	19.47297	20.70632	290	-8.91	-19.81	-13.38	-13.07
291	17.38796	19.52365	20.65056	291	-8.97	-19.91	-13.5	-13.07
292	17.43813	19.64189	20.70632	292	-8.71	-19.9	-13.56	-13.07
293	17.52174	19.70946	20.70632	293	-7.86	-19.77	-13.58	-13.1
294	17.58863	19.72635	20.85502	294	-7.8	-19.75	-13.54	-13.1
295	17.67224	19.76014	20.83643	295	-7.29	-19.56	-13.49	-13.07
296	17.73913	19.8277	20.91078	296	-6.48	-19.24	-13.41	-13.05
297	17.80602	19.8277	20.91078	297	-6.42	-18.88	-13.3	-13.01
298	17.7893	19.77703	20.85502	298	-6.55	-18.58	-13.17	-12.98
299	17.70569	19.65878	20.78067	299	-7.03	-18.27	-13.05	-12.96
300	17.47157	19.4223	20.57621	300	-8.04	-17.9	-12.9	-12.94
301	17.10368	19.08446	20.11152	301	-8.43	-17.53	-12.74	-12.91
302	16.58528	18.59459	19.59108	302	-8.05	-17.16	-12.63	-12.9
303	15.83278	17.93581	18.90335	303	-7.66	-16.72	-12.49	-12.85
304	14.96321	17.19257	18.04833	304	-6.5	-16.33	-12.34	-12.84

Adsorp_exp_8

Experiment type: Adsorption controlled experiment. There was not regolith in this experiment, just an empty petri dish. The humidity buffer was LiCl which has a RH of 11.31 at 0 degrees Celsius. Temperature around the sample was as close to -10 degrees Celsius as possible, cooled with liquid nitrogen and chiller system.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= humidity buffer 3= atmosphere 4= sample

Mass		RH				T				
Min.	Mass	Min.	Ch02	Ch03	Ch04	Min.	Ch01	Ch02	Ch03	Ch04
0	2.87	0	32.8796	38.14527	19.10781	0	6.29	-10.58	-4.12	-13.01

2	2.37	1	32.51171	40.07095	18.28996	1	-2.63	-11.8	-4.27	-13.01
4	2.2	2	31.84281	40.54392	16.97026	2	-9.63	-17.91	-4.98	-13.25
6	2.16	3	31.47492	39.27703	16.33829	3	-6.86	-15.97	-5.16	-13.21
8	2.2	4	31.44147	38.87162	16.44981	4	-5.11	-13.69	-4.86	-13.12
10	2.17	5	31.22408	42.875	17.13755	5	-5.65	-12.18	-4.65	-13.04
12	2.16	6	31.55853	48.04392	19.03346	6	-4.99	-11.17	-4.49	-12.89
14	2.15	7	33.06355	49.3277	21.89591	7	-4.17	-10.2	-4.27	-12.87
16	2.15	8	33.74916	40.76351	22.49071	8	-3.7	-9.6	-4.07	-12.82
18	2.16	9	29.28428	24.64865	18.55019	9	-5.49	-10.69	-4.18	-12.95
20	2.17	10	22.0602	12.01351	13.84758	10	-6.16	-11.69	-4.65	-12.91
22	2.18	11	15.82274	4.260135	10.4461	11	-5.83	-11.88	-4.81	-12.89
24	2.14	12	11.10702	0.841216	8.048327	12	-5.54	-11.78	-4.86	-12.84
26	2.14	13	7.762542	4.253378	6.133829	13	-5.45	-11.55	-4.9	-12.78
28	2.13	14	5.170569	6.567568	4.535316	14	-5.63	-11.36	-4.91	-12.73
30	2.12	15	2.896321	7.902027	3.197026	15	-6.09	-11.12	-4.9	-12.66
32	2.12	16	1.090301	8.560811	2.137546	16	-5.66	-10.97	-4.88	-12.63
34	2.11	17	0.003344	8.611486	1.505576	17	-5.08	-10.78	-4.84	-12.61
36	2.13	18	0.632107	8.054054	1.431227	18	-4.5	-10.53	-4.79	-12.59
38	2.14	19	0.799331	7.091216	1.821561	19	-3.93	-10.26	-4.73	-12.57
40	2.14	20	0.464883	5.756757	2.453532	20	-3.43	-9.97	-4.65	-12.57
42	2.13	21	0.220736	4.506757	3.289963	21	-2.87	-9.67	-4.57	-12.56
44	2.13	22	0.364548	5.942568	2.60223	22	-3.94	-9.98	-4.52	-12.59
46	2.12	23	2.939799	9.202703	0.260223	23	-6.4	-15.37	-4.84	-12.78
48	2.11	24	5.531773	11.33108	1.784387	24	-5.22	-16.11	-5.16	-12.84
50	2.12	25	7.237458	12.59797	3.122677	25	-5.2	-16.14	-5.33	-12.87
52	2.12	26	8.391304	13.56081	4.089219	26	-5.68	-15.15	-5.42	-12.82
54	2.11	27	9.076923	14.27027	4.739777	27	-7.17	-14.34	-5.5	-12.77
56	2.11	28	9.377926	14.70946	5.27881	28	-8.09	-13.8	-5.54	-12.7
58	2.11	29	9.478261	15.01351	5.650558	29	-8.52	-13.42	-5.58	-12.66
60	2.11	30	9.545151	15.19932	5.929368	30	-8.18	-13.06	-5.62	-12.61
62	2.1	31	9.645485	15.26689	6.189591	31	-6.74	-12.62	-5.6	-12.56
64	2.1	32	9.846154	15.08108	6.412639	32	-5.12	-12.8	-5.58	-12.53
66	2.1	33	10.09699	14.70946	6.486989	33	-6.15	-12.28	-5.56	-12.49
68	2.1	34	10.19732	14.13514	6.319703	34	-5.98	-11.88	-5.56	-12.45
70	2.09	35	10.09699	13.07095	5.98513	35	-4.01	-11.52	-5.53	-12.41
72	2.09	36	9.645485	11.7027	5.334572	36	-3.27	-11.04	-5.45	-12.34
74	2.08	37	8.859532	10.31757	4.442379	37	-3.08	-10.57	-5.37	-12.3
76	2.09	38	7.856187	8.814189	3.420074	38	-2.88	-10.15	-5.31	-12.24
78	2.09	39	6.551839	7.445946	2.174721	39	-2.8	-9.75	-5.24	-12.2
80	2.08	40	6	8.239865	1.747212	40	-2.87	-9.59	-5.17	-12.18
82	2.06	41	7.103679	10.95946	2.95539	41	-5.05	-12.08	-5.34	-12.34
84	2.07	42	8.257525	13.10473	4.628253	42	-7.07	-13.92	-5.56	-12.41
86	2.05	43	8.943144	14.40541	5.817844	43	-6.7	-12.57	-5.68	-12.41
88	2.06	44	9.461538	15.19932	6.765799	44	-6.24	-11.22	-5.76	-12.42
90	2.07	45	9.996656	15.60473	7.509294	45	-5.96	-10.98	-5.8	-12.43

92	2.08	46	10.49833	15.62162	7.843866	46	-4.2	-11.26	-5.8	-12.41
94	2.05	47	10.86622	15.35135	7.992565	47	-3.88	-10.83	-5.79	-12.37
96	2.06	48	11.06689	14.79392	7.936803	48	-4.52	-10.39	-5.8	-12.33
98	2.03	49	10.93311	13.83108	7.620818	49	-3.27	-9.96	-5.79	-12.3
100	2.04	50	10.66555	13.03716	7.267658	50	-1.54	-9.54	-5.77	-12.27
102	2.05	51	10.94983	13.7973	7.695167	51	-3.29	-11.91	-5.8	-12.42
104	2.03	52	11.56856	14.99662	8.66171	52	-5.38	-13.01	-5.96	-12.46
106	2.05	53	11.98662	15.80743	9.460967	53	-6.77	-12.55	-6.06	-12.44
108	2.03	54	12.18729	16.2973	10.05576	54	-5.65	-11.31	-6.11	-12.4
110	2.03	55	12.32107	16.53378	10.37175	55	-5.69	-11.03	-6.15	-12.38
112	2.05	56	12.47157	16.56757	10.53903	56	-4.86	-11.31	-6.16	-12.35
114	2.06	57	12.57191	16.36486	10.65056	57	-4.39	-11.35	-6.15	-12.31
116	2.04	58	12.47157	15.82432	10.63197	58	-3.5	-10.94	-6.14	-12.28
118	2.03	59	12.18729	14.92905	10.22305	59	-2.97	-10.29	-6.11	-12.27
120	2.03	60	11.65217	13.69595	9.609665	60	-2.43	-9.81	-6.08	-12.25
122	2.05	61	11.20067	13.03716	9.089219	61	-2.01	-9.5	-6.04	-12.25
124	2.06	62	11.63545	13.96622	9.479554	62	-3.3	-12.11	-6.16	-12.49
126	2.03	63	12.53846	15.13176	10.20446	63	-4.99	-13.25	-6.36	-12.59
128	2.03	64	13.17391	15.94257	10.81784	64	-5.43	-12.88	-6.47	-12.58
130	2.02	65	13.45819	16.39865	11.26394	65	-4.33	-12.19	-6.5	-12.54
132	2.01	66	13.62542	16.61824	11.69145	66	-3.42	-12.13	-6.51	-12.52
134	2.03	67	13.62542	16.61824	11.82156	67	-3.11	-11.63	-6.52	-12.51
136	2.05	68	13.50836	16.34797	11.80297	68	-3.01	-11.22	-6.52	-12.47
138	2.03	69	13.22408	15.80743	11.57993	69	-2.69	-10.72	-6.49	-12.43
140	2.01	70	12.73913	14.81081	11.13383	70	-2.5	-10.2	-6.44	-12.43
142	2	71	12.08696	13.35811	10.48327	71	-3.43	-9.77	-6.39	-12.36
144	2	72	11.55184	12.73311	9.981413	72	-1.99	-9.44	-6.36	-12.31
146	2.01	73	12.13712	13.86486	10.33457	73	-3.75	-12.79	-6.51	-12.6
148	2.03	74	12.98997	15.14865	11.04089	74	-4.54	-13.13	-6.66	-12.66
150	2.02	75	13.64214	15.89189	11.69145	75	-4.5	-12.73	-6.75	-12.61
152	2	76	14.12709	16.36486	12.2119	76	-3.51	-12.33	-6.77	-12.53
154	2	77	14.37793	16.60135	12.54647	77	-3.78	-11.9	-6.77	-12.48
156	1.99	78	14.39465	16.63514	12.63941	78	-3.08	-11.44	-6.76	-12.43
158	1.98	79	14.17726	16.34797	12.56506	79	-2.91	-10.99	-6.74	-12.39
160	1.98	80	13.80936	15.63851	12.32342	80	-2.29	-10.42	-6.72	-12.39
162	2	81	13.30769	14.64189	11.84015	81	-2.38	-9.9	-6.71	-12.33
164	2.02	82	13.05686	14.38851	11.50558	82	-1.14	-10.07	-6.69	-12.35
166	2.05	83	13.47492	15.21622	11.93309	83	-3.34	-13.46	-6.9	-12.7
168	2.01	84	14.12709	16.0777	12.63941	84	-4.07	-13.8	-6.99	-12.82
170	2.01	85	14.66221	16.60135	13.17844	85	-3.81	-12.86	-7.08	-12.75
172	2	86	14.96321	16.9223	13.49442	86	-3.38	-12.2	-7.17	-12.63
174	2.01	87	15.11371	17.05743	13.73606	87	-2.98	-12.13	-7.19	-12.59
176	2.02	88	15.0301	17.02365	13.86617	88	-2.45	-11.67	-7.14	-12.53
178	2.01	89	14.77926	16.68581	13.66171	89	-2.05	-10.96	-7.11	-12.47
180	2	90	14.39465	16.04392	13.34572	90	-2.11	-10.72	-7.04	-12.41

182	1.99	91	13.82609	15.13176	12.99257	91	-1.41	-10.07	-6.98	-12.36
184	1.99	92	13.05686	13.94932	12.32342	92	-2.4	-9.98	-6.9	-12.33
186	2	93	12.35452	13.10473	11.71004	93	-2.61	-9.53	-6.82	-12.27
188	2.01	94	12.55518	14	11.7658	94	-2.3	-11.59	-6.95	-12.36
190	2	95	13.35786	15.36824	12.36059	95	-3.22	-14.06	-7.28	-12.71
192	1.99	96	14.11037	16.22973	13.02974	96	-3.72	-14.05	-7.37	-12.75
194	1.99	97	14.71237	16.73649	13.55019	97	-3.29	-13.45	-7.48	-12.71
196	2	98	15.16388	17.04054	13.94052	98	-2.74	-13.71	-7.58	-12.69
198	2.01	99	15.38127	17.20946	14.14498	99	-2.33	-13.3	-7.57	-12.66
200	2	100	15.41472	17.17568	14.23792	100	-1.9	-12.51	-7.53	-12.58
202	1.99	101	15.26421	16.85473	14.23792	101	-1.82	-11.69	-7.48	-12.46
204	1.98	102	14.89632	16.11149	14.01487	102	-1.93	-10.76	-7.43	-12.35
206	1.98	103	14.3612	15.23311	13.58736	103	-2.04	-9.83	-7.35	-12.28
208	1.99	104	14.19398	15.19932	13.42007	104	-1.54	-10.17	-7.33	-12.3
210	2	105	14.61204	15.99324	13.79182	105	-2.1	-13.77	-7.65	-12.53
212	2.01	106	15.13043	16.7027	14.21933	106	-2.8	-14.4	-7.77	-12.73
214	1.99	107	15.54849	17.15878	14.5539	107	-1.81	-14.42	-7.84	-12.8
216	1.98	108	15.88294	17.46284	14.77695	108	-1.59	-14.07	-7.9	-12.77
218	1.98	109	16.10033	17.58108	14.94424	109	-1.58	-13.46	-7.91	-12.67
220	1.99	110	16.11706	17.44595	15	110	-1.69	-12.93	-7.84	-12.63
222	2.01	111	15.93311	17.07432	14.98141	111	-1.71	-12.02	-7.75	-12.53
224	1.99	112	15.51505	16.38176	14.79554	112	-1.9	-11.08	-7.69	-12.41
226	1.99	113	14.92977	15.41892	14.33086	113	-2.14	-10.11	-7.62	-12.33
228	1.97	114	14.41137	14.65878	13.81041	114	-2.13	-9.44	-7.52	-12.26
230	1.97	115	14.37793	15.11486	13.81041	115	-1.79	-11.86	-7.62	-12.38
232	1.97	116	14.86288	16.0777	14.25651	116	-2.05	-13.4	-7.85	-12.64
234	1.97	117	15.38127	16.71959	14.72119	117	-1.62	-13.44	-7.97	-12.68
236	1.99	118	15.76589	17.07432	15.07435	118	-1.61	-12.68	-8.02	-12.53
238	2	119	15.94983	17.26014	15.27881	119	-1.73	-12.72	-8	-12.53
240	2.02	120	15.89967	17.15878	15.35316	120	-1.71	-12.12	-7.91	-12.51
242	2.01	121	15.66555	16.77027	15.18587	121	-1.62	-10.91	-7.83	-12.45
244	1.99	122	15.1806	15.99324	14.8513	122	-1.52	-10.51	-7.71	-12.43
246	1.98	123	14.47826	14.94595	14.25651	123	-1.59	-9.95	-7.61	-12.41
248	1.98	124	13.65886	13.86486	13.47584	124	-2.17	-9.65	-7.52	-12.34
250	1.99	125	13.35786	13.78041	13.0855	125	-1.31	-9.88	-7.48	-12.35
252	2	126	13.94314	14.91216	13.55019	126	-2.45	-13.77	-7.9	-12.59
254	2.01	127	14.77926	16.02703	14.18216	127	-2.38	-15.62	-8.18	-12.88
256	2	128	15.43144	16.73649	14.66543	128	-2.02	-15.29	-8.27	-13.02
258	1.99	129	15.8495	17.19257	15.01859	129	-1.58	-14.34	-8.33	-13.01
260	1.98	130	16.16722	17.49662	15.27881	130	-1.52	-13.63	-8.35	-12.96
262	1.99	131	16.35117	17.58108	15.48327	131	-1.22	-12.94	-8.35	-12.9
264	2	132	16.38462	17.46284	15.66914	132	-1.13	-12.53	-8.3	-12.82
266	2	133	16.23411	17.10811	15.66914	133	-0.94	-12	-8.21	-12.79
268	1.98	134	15.88294	16.43243	15.40892	134	-1.4	-11.47	-8.1	-12.72
270	1.97	135	15.29766	15.40203	14.96283	135	-1.87	-10.72	-7.99	-12.58

272	1.97	136	14.47826	14.13514	14.34944	136	-1.9	-9.95	-7.87	-12.46
274	1.98	137	13.94314	13.81419	13.88476	137	-1.51	-9.68	-7.77	-12.38
276	2	138	14.27759	14.81081	14.12639	138	-2.44	-12.7	-8.04	-12.68
278	2.01	139	14.97993	15.94257	14.68401	139	-2.03	-14.53	-8.36	-13.02
280	1.99	140	15.59866	16.71959	15.22305	140	-1.97	-14.71	-8.53	-13.12
282	1.97	141	15.96656	17.15878	15.66914	141	-1.98	-13.96	-8.61	-13.05
284	1.97	142	16.21739	17.46284	16.00372	142	-1.81	-13.34	-8.65	-12.92
286	1.97	143	16.41806	17.68243	16.22677	143	-1.62	-12.74	-8.64	-12.81
288	1.97	144	16.51839	17.68243	16.33829	144	-1.25	-12.11	-8.6	-12.72
290	1.97	145	16.40134	17.37838	16.24535	145	-0.96	-11.6	-8.53	-12.62
292	1.98	146	16.11706	16.71959	16.15242	146	-1.21	-11.47	-8.44	-12.54
294	2	147	15.51505	15.75676	15.83643	147	-1.49	-11.12	-8.31	-12.48
296	2.02	148	14.66221	14.47297	15.20446	148	-1.76	-10.41	-8.17	-12.4
298	2.06	149	13.80936	13.18919	14.44238	149	-1.98	-9.76	-8.04	-12.3
300	2.06	150	13.42475	13.375	13.95911	150	-2.08	-10.62	-7.97	-12.36
302	2.1	151	13.92642	14.76014	14.4052	151	-3.27	-17.22	-8.35	-12.91
304	2.14	152	14.71237	15.84122	15.05576	152	-3.32	-16.48	-8.7	-13.39
		153	15.38127	16.51689	15.50186	153	-2.95	-16.52	-8.91	-13.6
		154	15.8495	17.02365	15.89219	154	-3.39	-16.59	-9.05	-13.44
		155	16.18395	17.39527	16.18959	155	-3.21	-16	-9.14	-13.13
		156	16.43478	17.63176	16.48699	156	-3.07	-15.06	-9.2	-12.95
		157	16.63545	17.76689	16.72862	157	-2.23	-14.52	-9.21	-12.91
		158	16.73579	17.83446	16.82156	158	-2.08	-13.83	-9.19	-12.86
		159	16.78595	17.83446	16.89591	159	-1.93	-13.47	-9.15	-12.73
		160	16.71906	17.69932	17.00743	160	-1.52	-12.93	-9.07	-12.7
		161	16.58528	17.41216	17.02602	161	-1.46	-12.35	-8.97	-12.69
		162	16.301	16.77027	16.85874	162	-1.55	-11.81	-8.86	-12.63
		163	15.78261	15.6723	16.54275	163	-1.53	-11.26	-8.75	-12.53
		164	15.01338	14.23649	15.96654	164	-1.92	-10.78	-8.63	-12.42
		165	14.12709	12.71622	15.05576	165	-2.9	-10.29	-8.48	-12.34
		166	13.0903	11.44932	13.88476	166	-4.04	-9.83	-8.33	-12.3
		167	12.38796	11.41554	13.02974	167	-2.84	-9.69	-8.22	-12.27
		168	12.90635	12.9527	13.45725	168	-2.05	-12.42	-8.43	-12.58
		169	13.80936	14.57432	14.36803	169	-1.76	-13.39	-8.7	-12.81
		170	14.59532	15.60473	15.09294	170	-1.77	-13.07	-8.79	-12.82
		171	15.08027	16.14527	15.61338	171	-1.47	-12.52	-8.81	-12.75
		172	15.36455	16.39865	16.04089	172	-1.7	-11.93	-8.79	-12.64
		173	15.46488	16.2973	16.22677	173	-1.74	-11.35	-8.73	-12.53
		174	15.19732	15.72297	16.09665	174	-1.61	-10.61	-8.66	-12.44
		175	14.62876	14.72635	15.70632	175	-1.2	-10.04	-8.6	-12.35
		176	13.92642	13.66216	15.09294	176	-1.34	-9.63	-8.5	-12.26
		177	13.70903	13.71284	15	177	-1.65	-10.27	-8.44	-12.32
		178	14.29431	14.89527	15.50186	178	-2.1	-13.53	-8.77	-12.82
		179	14.99666	16.04392	16.171	179	-1.63	-13.83	-8.98	-13.17
		180	15.54849	16.77027	16.67286	180	-1.68	-13.05	-9.06	-13.16

181	15.94983	17.17568	16.89591	181	-1.8	-12.39	-9.08	-12.93
182	16.23411	17.42905	17.13755	182	-1.48	-12.04	-9.06	-12.76
183	16.35117	17.44595	17.34201	183	-1.33	-11.6	-9.02	-12.62
184	16.26756	17.15878	17.30483	184	-1.39	-11.17	-8.96	-12.47
185	15.91639	16.55068	17.15613	185	-1.27	-10.69	-8.88	-12.32
186	15.23077	15.50338	16.71004	186	-1.04	-10.19	-8.77	-12.2
187	14.59532	14.65878	16.22677	187	-0.85	-9.65	-8.64	-12.11
188	14.56187	14.99662	16.3197	188	-2.02	-11.64	-8.68	-12.35
189	15.04682	15.92568	16.71004	189	-1.79	-13.04	-8.93	-12.8
190	15.63211	16.68581	17.13755	190	-1.81	-12.55	-9.05	-12.87
191	16.03344	17.19257	17.49071	191	-1.88	-12.19	-9.09	-12.71
192	16.28428	17.49662	17.67658	192	-1.59	-11.88	-9.09	-12.56
193	16.35117	17.53041	17.82528	193	-1.18	-11.58	-9.03	-12.5
194	16.23411	17.27703	17.86245	194	-0.92	-11.13	-8.96	-12.42
195	15.91639	16.68581	17.63941	195	-1.17	-10.65	-8.86	-12.31
196	15.28094	15.62162	17.08178	196	-1.1	-10.1	-8.75	-12.2
197	14.31104	14.28716	16.26394	197	-0.95	-9.62	-8.64	-12.09
198	13.64214	13.88176	15.85502	198	-1	-9.59	-8.53	-12.07
199	14.0602	14.87838	16.26394	199	-2.72	-12.59	-8.73	-12.62
200	14.86288	15.95946	16.82156	200	-2.24	-13.96	-9.03	-13.05
201	15.48161	16.68581	17.23048	201	-2.32	-13.9	-9.2	-13.13
202	15.91639	17.27703	17.58364	202	-1.97	-13.12	-9.27	-13.06
203	16.26756	17.68243	17.7881	203	-1.82	-12.74	-9.29	-12.91
204	16.48495	17.86824	17.9368	204	-1.9	-12.39	-9.28	-12.7
205	16.60201	17.9527	18.10409	205	-1.59	-12.22	-9.25	-12.56
206	16.56856	17.85135	18.21561	206	-1.28	-11.85	-9.19	-12.47
207	16.38462	17.42905	18.01115	207	-1.1	-11.36	-9.1	-12.41
208	15.88294	16.58446	17.67658	208	-1.14	-10.87	-8.99	-12.31
209	15.11371	15.30068	17.13755	209	-1.12	-10.27	-8.9	-12.18
210	14.16054	13.93243	16.43123	210	-1.04	-9.8	-8.79	-12.1
211	13.72575	13.91554	16.13383	211	-1.68	-10.47	-8.71	-12.17
212	14.27759	15.13176	16.48699	212	-2.62	-13.18	-8.98	-12.7
213	14.96321	16.17905	16.97026	213	-2.64	-13.54	-9.22	-12.91
214	15.53177	16.83784	17.45353	214	-2	-12.79	-9.33	-12.93
215	16	17.27703	17.80669	215	-2.03	-12.32	-9.36	-12.81
216	16.31773	17.61486	18.0855	216	-2.2	-12.01	-9.37	-12.63
217	16.45151	17.78378	18.2342	217	-1.92	-11.72	-9.34	-12.46
218	16.41806	17.61486	18.28996	218	-1.5	-11.5	-9.27	-12.33
219	16.21739	17.10811	18.19703	219	-1.49	-11.12	-9.18	-12.25
220	15.74916	16.22973	17.88104	220	-1.36	-10.71	-9.08	-12.17
221	14.89632	14.91216	17.24907	221	-1.29	-10.23	-8.97	-12.08
222	13.89298	13.62838	16.41264	222	-1.06	-9.66	-8.85	-12.01
223	13.6087	13.72973	16.18959	223	-1.71	-11.07	-8.78	-12.15
224	14.2107	14.91216	16.6171	224	-3.14	-14.86	-9.08	-13.17
225	14.89632	15.95946	17.13755	225	-3.05	-15.58	-9.37	-13.66

226	15.44816	16.71959	17.54647	226	-2.88	-16.16	-9.55	-13.71
227	15.96656	17.22635	17.84387	227	-2.17	-15.01	-9.66	-13.74
228	16.33445	17.58108	18.06691	228	-2.37	-14.58	-9.74	-13.66
229	16.56856	17.83446	18.28996	229	-2.49	-14.16	-9.79	-13.41
230	16.76923	18.02027	18.51301	230	-2.4	-13.73	-9.82	-13.18
231	16.86957	18.12162	18.64312	231	-1.8	-13.23	-9.81	-13.05
232	16.85284	18.05405	18.69888	232	-1.74	-12.84	-9.77	-12.9
233	16.80268	17.80068	18.66171	233	-1.78	-12.41	-9.71	-12.76
234	16.58528	17.41216	18.6803	234	-1.53	-11.99	-9.63	-12.65
235	16.13378	16.65203	18.43866	235	-1.48	-11.49	-9.53	-12.56
236	15.38127	15.38514	17.84387	236	-1.38	-10.95	-9.42	-12.48
237	14.37793	13.76351	17.00743	237	-1.4	-10.63	-9.3	-12.41
238	13.2408	11.83784	15.98513	238	-1.31	-10.23	-9.15	-12.32
239	11.9699	9.89527	14.75836	239	-1.46	-9.85	-9.02	-12.25
240	11.18395	9.743243	13.90335	240	-1.48	-9.68	-8.86	-12.17
241	11.86957	11.78716	14.36803	241	-3.12	-12.68	-9.05	-12.57
242	13.10702	13.84797	15.22305	242	-1.78	-13.6	-9.39	-13.14
243	14.16054	15.16554	16.0223	243	-1.94	-13.5	-9.57	-13.28
244	14.89632	16.06081	16.69145	244	-2.37	-12.99	-9.67	-13.1
245	15.43144	16.66892	17.17472	245	-2.29	-12.67	-9.71	-12.89
246	15.81605	17.07432	17.56506	246	-2.26	-12.36	-9.7	-12.7
247	16.05017	17.26014	17.84387	247	-2.05	-12.09	-9.66	-12.55
248	16.08361	17.20946	18.01115	248	-1.66	-11.73	-9.59	-12.43
249	15.89967	16.83784	17.99257	249	-1.41	-11.35	-9.49	-12.33
250	15.48161	16.02703	17.67658	250	-1.48	-10.9	-9.39	-12.24
251	14.7291	14.64189	17.13755	251	-1.4	-10.39	-9.27	-12.14
252	13.70903	12.85135	16.33829	252	-1.33	-9.94	-9.14	-12.08
253	12.62207	11.5	15.40892	253	-1.16	-9.6	-9	-12.01
254	12.32107	12.24324	15.18587	254	-1.94	-10.74	-8.95	-12.11
255	13.10702	14.03378	15.87361	255	-2.01	-13.48	-9.23	-12.62
256	14.11037	15.35135	16.59851	256	-2.09	-12.94	-9.43	-12.77
257	14.92977	16.22973	17.2119	257	-1.79	-11.98	-9.51	-12.73
258	15.49833	16.73649	17.69517	258	-1.84	-11.78	-9.53	-12.57
259	15.74916	16.97297	17.99257	259	-1.62	-11.64	-9.51	-12.44
260	15.81605	17.02365	18.17844	260	-1.24	-11.29	-9.45	-12.39
261	15.63211	16.68581	18.14126	261	-1	-10.91	-9.36	-12.31
262	15.14716	15.80743	17.82528	262	-1.04	-10.45	-9.26	-12.21
263	14.34448	14.4223	17.23048	263	-1.13	-9.97	-9.14	-12.07
264	13.70903	13.86486	16.74721	264	-1.21	-9.77	-9.03	-12
265	13.97659	14.81081	16.95167	265	-2.21	-12.67	-9.16	-12.48
266	14.71237	15.89189	17.41636	266	-0.81	-13.18	-9.42	-13.11
267	15.44816	16.68581	17.86245	267	-1.43	-12.89	-9.56	-13.24
268	15.93311	17.22635	18.28996	268	-2.03	-12.58	-9.64	-13.05
269	16.21739	17.59797	18.60595	269	-1.99	-12.23	-9.68	-12.85
270	16.38462	17.78378	18.829	270	-2.22	-11.94	-9.67	-12.64

271	16.43478	17.80068	18.94052	271	-1.83	-11.7	-9.63	-12.51
272	16.38462	17.59797	18.94052	272	-1.4	-11.38	-9.56	-12.42
273	16.05017	17.02365	18.71747	273	-1.06	-11	-9.45	-12.39
274	15.36455	16.02703	18.36431	274	-0.92	-10.53	-9.34	-12.33
275	14.39465	14.625	17.65799	275	-0.82	-10.15	-9.21	-12.24
276	13.42475	13.39189	16.80297	305	0.98	-5.67	-7.6	-12.03
277	13.25753	13.83108	16.67286					
278	13.94314	15.16554	17.15613					
279	14.77926	16.14527	17.63941					
280	15.41472	16.88851	18.02974					
281	15.86622	17.37838	18.40149					
282	16.23411	17.63176	18.71747					
283	16.50167	17.83446	18.94052					
284	16.65217	17.90203	19.16357					
285	16.73579	18.03716	19.31227					
286	16.86957	18.18919	19.47955					
287	16.98662	18.22297	19.59108					
288	17.05351	18.15541	19.60967					
289	16.95318	18.00338	19.5539					
290	16.70234	17.53041	19.31227					
291	16.20067	16.7027	18.95911					
292	15.43144	15.58784	18.27138					
293	14.3612	14.06757	17.32342					
294	12.98997	12.29392	16.30112					
295	11.65217	10.4527	15.07435					
296	10.46488	8.695946	13.90335					
297	9.377926	7.091216	12.7881					
298	8.608696	5.706081	11.69145					
299	7.906355	4.641892	10.68773					
300	6.986622	3.864865	9.64684					
301	6	3.138514	8.680297					
302	5.130435	2.057432	7.490706					
303	4.227425	0.672297	6.022305					
304	3.023411	0.695946	4.776952					

Adsorp_exp_9

Experiment type: Adsorption experiment. The regolith type is JSC Mars-1 in this experiment, with a thickness of 2 mm. The initial weight was 88.45 g. The humidity buffer was LiCl which has a RH of 11.31 at 0 degrees Celsius. Temperature around the sample was as close to -10 degrees Celsius as possible, cooled with liquid nitrogen and chiller system.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= humidity buffer 3= atmosphere 4= sample

Mass Min.	Mass	RH Min.	Ch02	Ch03	Ch04	T Min.	Ch01	Ch02	Ch03	Ch04
0	90.8	0	30.55518	30.22297	18.0855	0	10.39	-7.82	-7.84	-12.23
2	90.23	1	30.83946	33.38176	17.63941	1	-0.57	-8.54	-7.9	-12.29
4	90.09	2	31.02341	37.85811	15.61338	2	-8.43	-15.27	-8.61	-12.56
6	90.04	3	31.02341	39.17568	13.88476	3	-6.19	-14.01	-9.01	-12.63
8	95.82	4	31.35786	38.14527	13.36431	4	-4.32	-11.47	-8.82	-12.61
10	88.98	5	31.7592	37.16554	13.81041	5	-3.38	-9.74	-8.62	-12.59
12	89.5	6	31.92642	34.00676	12.97398	6	-3.2	-8.95	-8.61	-12.62
14	89.88	7	30.2709	25.51014	4.758364	7	-6.1	-11.6	-9.71	-12.69
16	89.87	8	26.32441	16.65878	3.680297	8	-6.81	-11.65	-10.76	-12.8
18	89.85	9	21.15719	10.18919	6.784387	9	-6.62	-11.39	-11.17	-12.88
20	89.85	10	15.95652	4.445946	8.457249	10	-6.85	-13.5	-11.44	-12.93
22	89.84	11	11.34114	0.638514	9.628253	11	-7.15	-14.78	-11.62	-12.97
24	89.85	12	7.545151	4.625	10.53903	12	-7.47	-12.66	-11.77	-13.01
26	89.86	13	4.585284	7.665541	11.22677	13	-7.43	-12.51	-11.88	-13.02
28	89.88	14	2.277592	9.810811	11.52416	14	-7.48	-12.59	-11.95	-13.02
30	90.13	15	0.471572	11.16216	11.59851	15	-7.47	-12.42	-11.98	-13.02
32	88.68	16	1	11.98986	11.65428	16	-7.52	-12.36	-11.95	-13
34	89.54	17	2.036789	12.47973	11.52416	17	-7.57	-12.38	-11.89	-12.99
36	89.97	18	2.688963	12.80068	11.05948	18	-7.41	-12.61	-11.78	-12.98
38	90.04	19	3.140468	13.08784	10.24164	19	-7.09	-12.7	-11.58	-12.97
40	90.04	20	3.625418	13.44257	8.959108	20	-6.84	-12.52	-11.4	-12.96
42	90.06	21	4.19398	13.76351	6.802974	21	-6.59	-12.25	-11.25	-12.95
44	90.05	22	4.67893	13.89865	3.643123	22	-6.37	-11.97	-11.11	-12.92
46	90.09	23	5.130435	13.86486	0.836431	23	-6.19	-11.7	-10.97	-12.89
48	90.11	24	5.448161	13.64527	6.840149	24	-5.95	-11.42	-10.84	-12.86
50	90.13	25	5.598662	13.20608	13.02974	25	-5.69	-11.13	-10.7	-12.84
52	89.14	26	5.632107	12.47973	17.86245	26	-5.43	-10.83	-10.56	-12.82
54	89.94	27	5.464883	11.60135	21.11524	27	-5.19	-10.51	-10.42	-12.8
56	90.02	28	5.16388	10.68919	23.88476	28	-4.95	-10.19	-10.28	-12.79
58	90.08	29	4.628763	9.777027	26.56134	29	-4.71	-9.87	-10.14	-12.76
60	90.08	30	3.943144	8.847973	28.92193	30	-4.46	-9.51	-10.01	-12.74
62	90.08	31	3.909699	9.337838	28.55019	31	-3.51	-10.42	-10.08	-12.89
64	90.09	32	5.431438	11.7027	22.86245	32	-6.03	-15.2	-10.55	-13.2
66	90.1	33	7.421405	13.69595	16.48699	33	-5.75	-16.24	-10.87	-13.44
68	90.13	34	8.809365	14.87838	12.36059	34	-8.19	-13.8	-11.17	-13.43
70	91.07	35	9.67893	15.65541	9.851301	35	-9.42	-12.27	-11.25	-13.38
72	89.75	36	10.36455	16.12838	8.289963	36	-7.5	-12.96	-11.3	-13.3
74	90.03	37	10.88294	16.55068	7.527881	37	-5.76	-13.69	-11.41	-13.23

76	90.03	38	11.26756	16.87162	7.211896	38	-5.52	-13.25	-11.43	-13.16
78	90.11	39	11.61873	17.00676	6.933086	39	-5.62	-12.76	-11.4	-13.12
80	90.1	40	11.83612	17.14189	7.04461	40	-5.87	-12.39	-11.34	-13.04
82	90.12	41	11.90301	17.20946	7.695167	41	-6.03	-12.1	-11.26	-12.99
84	90.14	42	11.93645	17.14189	8.959108	42	-5.97	-11.84	-11.15	-12.92
86	90.16	43	11.85284	16.90541	11.30112	43	-5.96	-11.59	-11.03	-12.85
88	90.19	44	11.73579	16.43243	14.92565	44	-5.97	-11.34	-10.88	-12.77
90	90.38	45	11.71906	15.70608	19.33086	45	-5.78	-11.12	-10.73	-12.7
92	89.47	46	11.58528	14.89527	23.64312	46	-5.5	-10.9	-10.59	-12.64
94	90.03	47	11.28428	13.93243	26.80297	47	-5.24	-10.62	-10.45	-12.6
96	90.07	48	10.81605	12.68243	29.18216	48	-4.98	-10.33	-10.31	-12.57
98	90.07	49	10.28094	11.33108	31.52416	49	-4.69	-10.01	-10.17	-12.52
100	90.07	50	9.61204	10.0473	33.69888	50	-4.43	-9.71	-10.06	-12.53
102	90.09	51	8.876254	9.033784	35.2974	51	-4.08	-9.57	-9.94	-12.57
104	90.1	52	8.993311	10.25	31.7658	52	-3.68	-12.19	-10.25	-12.83
106	90.12	53	10.26421	12.71622	24.53532	53	-3.8	-12.61	-10.61	-13.09
108	90.15	54	11.55184	14.40541	19.31227	54	-5.05	-14.4	-10.77	-13.2
110	89.58	55	12.35452	15.36824	16.41264	55	-5.75	-14.85	-10.95	-13.18
112	89.74	56	12.87291	16.04392	14.49814	56	-5.39	-14.97	-10.98	-13.11
114	90.04	57	13.22408	16.51689	13.02974	57	-4.82	-14.57	-11.03	-13.03
116	90.1	58	13.50836	16.83784	12.24907	58	-4.73	-13.94	-11.05	-12.98
118	90.1	59	13.70903	17.07432	11.97026	59	-4.85	-13.23	-11.05	-12.95
120	90.1	60	13.85953	17.26014	12.19331	60	-5.05	-12.61	-11.01	-12.93
122	90.11	61	13.92642	17.27703	12.82528	61	-5.39	-12.13	-10.94	-12.93
124	90.14	62	13.84281	17.04054	14.51673	62	-5.67	-11.63	-10.83	-12.92
126	90.17	63	13.69231	16.55068	17.50929	63	-5.88	-11.18	-10.72	-12.88
128	90.87	64	13.47492	15.875	21.44981	64	-6.05	-10.85	-10.59	-12.83
130	89.65	65	13.19064	15.0473	26.00372	65	-5.82	-10.61	-10.45	-12.78
132	90.06	66	12.83946	13.93243	29.72119	66	-5.45	-10.37	-10.33	-12.75
134	90.12	67	12.33779	12.53041	32.10037	67	-5.13	-10.09	-10.19	-12.72
136	90.11	68	11.56856	11.24662	33.95911	68	-4.85	-9.8	-10.07	-12.69
138	90.11	69	10.73244	10.0473	35.66914	69	-4.59	-9.51	-9.94	-12.66
140	90.12	70	10.08027	9.489865	36.20818	70	-4.12	-10.15	-9.94	-12.74
142	90.15	71	10.46488	11.19595	30.66914	71	-3.76	-12.52	-10.34	-12.97
144	90.17	72	11.76923	13.34122	23.60595	72	-3.78	-12.28	-10.64	-13.17
146	90.19	73	12.95652	14.70946	19.51673	73	-4.31	-13.33	-10.76	-13.31
148	89.96	74	13.80936	15.55405	16.89591	74	-4.97	-14.08	-10.8	-13.31
150	90.16	75	14.44482	16.12838	15.11152	75	-5.54	-14.35	-10.83	-13.24
152	90.16	76	14.81271	16.61824	14.10781	76	-5.12	-14.18	-10.82	-13.16
154	90.14	77	15.01338	16.95608	13.47584	77	-4.98	-14.15	-10.8	-13.08
156	90.15	78	15.19732	17.09122	13.28996	78	-4.51	-13.83	-10.77	-13.01
158	90.15	79	15.29766	17.17568	13.42007	79	-4.44	-13.19	-10.74	-12.89
160	90.17	80	15.23077	17.20946	14.16357	80	-4.84	-12.43	-10.71	-12.85
162	90.2	81	15.01338	17.02365	15.92937	81	-5.23	-11.75	-10.63	-12.83
164	89.98	82	14.7291	16.55068	18.79182	82	-5.25	-11.23	-10.53	-12.8

166	90.07	83	14.42809	15.82432	22.67658	83	-5.27	-10.81	-10.42	-12.76
168	90.16	84	14.04348	14.81081	27.36059	84	-5.51	-10.5	-10.31	-12.74
170	90.15	85	13.55853	13.71284	31.26394	85	-5.42	-10.23	-10.18	-12.7
172	90.14	86	12.92308	12.53041	33.66171	86	-5.16	-9.97	-10.06	-12.68
174	90.14	87	12.08696	11.12838	35.50186	87	-4.87	-9.67	-9.93	-12.66
176	90.16	88	11.16722	9.793919	37.11896	88	-4.57	-9.37	-9.81	-12.62
178	90.18	89	10.28094	8.746622	38.34572	89	-4.3	-9.17	-9.71	-12.62
180	90.2	90	10.23077	9.777027	34.53532	90	-3.81	-11.09	-9.97	-12.84
182	90.21	91	11.38462	12.29392	26.44981	91	-3.84	-13.15	-10.37	-13.12
184	89.64	92	12.72241	14	20.65056	92	-3.69	-13.16	-10.61	-13.23
186	90.09	93	13.64214	15.0473	17.54647	93	-3.85	-14.14	-10.74	-13.29
188	90.17	94	14.34448	15.84122	15.57621	94	-4.36	-14.89	-10.79	-13.26
190	90.18	95	14.92977	16.39865	14.27509	95	-4.48	-15.21	-10.83	-13.2
192	90.16	96	15.36455	16.80405	13.66171	96	-4.34	-15.3	-10.83	-13.12
194	90.15	97	15.66555	17.09122	13.27138	97	-4.49	-15.19	-10.82	-13.04
196	90.17	98	15.86622	17.24324	13.10409	98	-4.23	-14.68	-10.8	-12.97
198	90.18	99	16.01672	17.36149	13.27138	99	-4.52	-14.07	-10.75	-12.91
200	90.21	100	16.06689	17.37838	13.94052	100	-4.52	-13.4	-10.67	-12.85
202	90.23	101	16	17.20946	15.42751	101	-4.55	-12.75	-10.57	-12.78
204	89.96	102	15.83278	16.85473	17.73234	102	-4.55	-12.02	-10.45	-12.74
206	90.19	103	15.53177	16.33108	21.18959	103	-4.44	-11.37	-10.33	-12.69
208	90.2	104	15.08027	15.50338	25.74349	104	-4.77	-10.79	-10.2	-12.63
210	90.19	105	14.49498	14.38851	30.18587	105	-4.83	-10.45	-10.09	-12.58
212	90.18	106	13.74247	13.02027	33.56877	106	-4.8	-10.17	-9.96	-12.53
214	90.18	107	12.9398	11.65203	35.87361	107	-4.65	-9.89	-9.84	-12.5
216	90.19	108	12.05351	10.50338	37.76952	108	-4.41	-9.59	-9.72	-12.48
218	90.21	109	11.16722	9.506757	38.9777	109	-4.1	-9.45	-9.63	-12.5
220	90.23	110	11.16722	10.53716	34.33086	110	-3.6	-11.53	-9.92	-12.78
222	90.03	111	12.15385	12.81757	26.50558	111	-3.78	-12.88	-10.29	-13.07
224	90.16	112	13.3913	14.35473	21.43123	112	-3.5	-13.61	-10.49	-13.2
226	90.23	113	14.3612	15.33446	18.40149	113	-3.46	-14.72	-10.59	-13.26
228	90.21	114	14.99666	16.02703	16.54275	114	-3.9	-14.86	-10.63	-13.23
230	90.21	115	15.46488	16.51689	15.46468	115	-4	-14.86	-10.63	-13.18
232	90.21	116	15.79933	16.9223	14.79554	116	-3.87	-14.71	-10.62	-13.12
234	90.21	117	16.08361	17.24324	14.38662	117	-3.58	-14.52	-10.59	-13.04
236	90.22	118	16.25084	17.34459	14.44238	118	-3.48	-14.19	-10.55	-12.96
238	90.25	119	16.33445	17.36149	14.7026	119	-3.75	-13.61	-10.5	-12.89
240	89.85	120	16.38462	17.31081	15.50186	120	-4.19	-13.06	-10.43	-12.82
242	90.07	121	16.31773	17.09122	17.28625	121	-4.3	-12.38	-10.35	-12.75
244	90.23	122	16.11706	16.66892	20.16729	122	-4.28	-11.7	-10.25	-12.71
246	90.21	123	15.71572	16.04392	24.05204	123	-4.43	-10.98	-10.13	-12.67
248	90.22	124	15.14716	15.09797	28.45725	124	-4.63	-10.5	-10.01	-12.61
250	90.21	125	14.46154	13.89865	32.63941	125	-4.37	-10.15	-9.89	-12.55
252	90.21	126	13.74247	12.5473	35.33457	126	-4.33	-9.87	-9.77	-12.5
254	90.24	127	12.90635	11.2973	36.84015	127	-4.27	-9.66	-9.67	-12.49

256	90.25	128	12.45485	11.51689	34.38662	128	-3.66	-11.4	-9.86	-12.74
258	90.03	129	13.15719	13.10473	27.62082	129	-3.72	-13.01	-10.25	-13.08
260	90.06	130	14.16054	14.50676	22.28625	130	-3.38	-13.34	-10.49	-13.26
262	90.23	131	14.96321	15.40203	19.14498	131	-3.29	-15.56	-10.61	-13.31
264	90.23	132	15.53177	16.09459	17.23048	132	-3.63	-15.47	-10.67	-13.26
266	90.23	133	15.96656	16.63514	16.33829	133	-4.11	-15.28	-10.69	-13.21
268	90.22	134	16.25084	16.97297	15.65056	134	-4.11	-15.47	-10.66	-13.14
270	90.22	135	16.45151	17.19257	15.16729	135	-3.94	-15.3	-10.64	-13.09
272	90.21	136	16.60201	17.36149	15.20446	136	-3.93	-14.9	-10.62	-13.01
274	90.23	137	16.6689	17.46284	15.48327	137	-3.91	-14.2	-10.58	-12.92
276	90.25	138	16.71906	17.47973	15.94796	138	-4.21	-13.55	-10.51	-12.85
278	90.02	139	16.65217	17.39527	17.2119	139	-4.41	-12.93	-10.43	-12.79
280	90.25	140	16.48495	17.10811	19.62825	140	-4.36	-12.17	-10.34	-12.72
282	90.26	141	16.20067	16.51689	23.06691	141	-4.36	-11.48	-10.23	-12.66
284	90.24	142	15.699	15.6723	27.32342	142	-4.76	-10.83	-10.1	-12.61
286	90.24	143	15.06355	14.60811	31.41264	143	-4.72	-10.46	-9.98	-12.55
288	90.25	144	14.37793	13.39189	34.31227	144	-4.59	-10.16	-9.86	-12.5
290	90.25	145	13.6087	12.02365	36.3197	145	-4.45	-9.86	-9.74	-12.46
292	90.27	146	12.68896	10.60473	37.88104	146	-4.29	-9.58	-9.65	-12.45
294	90.3	147	11.90301	9.641892	38.71747	147	-3.81	-9.49	-9.58	-12.52
296	90.28	148	11.93645	10.94257	34.57249	148	-3.59	-10.66	-9.91	-12.73
298	90.27	149	12.95652	13.07095	27.47212	149	-3.52	-11.54	-10.24	-12.98
300	90.28	150	14.11037	14.59122	22.84387	150	-4.18	-13.06	-10.38	-13.11
302	90.27	151	14.86288	15.63851	19.94424	151	-4.44	-13.78	-10.43	-13.12
304	90.29	152	15.44816	16.26351	18.01115	152	-4.5	-14.29	-10.48	-13.05
306	90.28	153	15.93311	16.71959	16.78439	153	-4.24	-14.21	-10.52	-12.98
308	90.28	154	16.21739	17.05743	15.89219	154	-3.83	-13.78	-10.53	-12.9
310	90.28	155	16.36789	17.27703	15.57621	155	-3.66	-13.21	-10.48	-12.82
312	90.28	156	16.45151	17.37838	15.89219	156	-3.93	-12.62	-10.41	-12.73
314	90.29	157	16.48495	17.24324	17.02602	157	-4.2	-12.11	-10.34	-12.67
316	90.29	158	16.43478	16.9223	19.10781	158	-4.18	-11.54	-10.25	-12.62
318	90.28	159	16.20067	16.43243	22.15613	159	-4.21	-10.91	-10.15	-12.57
320	90.28	160	15.66555	15.58784	26.15242	160	-4.14	-10.42	-10.04	-12.53
322	90.28	161	14.96321	14.47297	30.2974	161	-4.1	-9.99	-9.93	-12.49
324	90.29	162	14.12709	13.15541	33.25279	162	-3.68	-9.58	-9.79	-12.44
326	90.27	163	13.49164	12.29392	33.75465	163	-3.34	-9.94	-9.79	-12.52
328	90.28	164	13.69231	13.29054	29.03346	164	-3.65	-11.6	-10.17	-12.84
330	90.28	165	14.49498	14.70946	23.14126	165	-3.79	-12.21	-10.45	-13.12
332	90.29	166	15.21405	15.6723	19.42379	166	-4.51	-13.66	-10.54	-13.23
334	90.29	167	15.74916	16.28041	17.04461	167	-4.38	-14.63	-10.59	-13.2
336	90.28	168	16.18395	16.77027	15.48327	168	-4.47	-14.92	-10.66	-13.12
338	90.28	169	16.48495	17.125	14.49814	169	-4.66	-14.87	-10.73	-13.03
340	90.28	170	16.68562	17.42905	13.9777	170	-4.43	-14.63	-10.78	-12.96
342	90.29	171	16.8194	17.59797	13.81041	171	-4.45	-14	-10.74	-12.91
344	90.3	172	16.88629	17.64865	13.73606	172	-4.48	-13.59	-10.65	-12.87

346	90.35	173	16.95318	17.71622	14.16357	173	-4.72	-13.05	-10.58	-12.84
348	90.21	174	16.86957	17.56419	15.1487	174	-4.64	-12.49	-10.5	-12.8
350	90.28	175	16.68562	17.27703	17.13755	175	-4.72	-11.84	-10.4	-12.74
352	90.27	176	16.43478	16.85473	20.27881	176	-4.55	-11.29	-10.29	-12.68
354	90.27	177	15.98328	16.21284	23.94052	177	-4.28	-10.81	-10.18	-12.63
356	90.27	178	15.36455	15.19932	27.80669	178	-4.24	-10.34	-10.06	-12.59
358	90.28	179	14.66221	13.96622	31.04089	179	-4.56	-10	-9.94	-12.54
360	90.29	180	13.92642	12.64865	33.10409	180	-4.47	-9.71	-9.82	-12.5
362	90.31	181	13.05686	11.34797	34.38662	181	-4.36	-9.44	-9.71	-12.46
364	90	182	12.18729	10.31757	35.40892	182	-4.21	-9.21	-9.6	-12.44
366	90.59	183	11.85284	10.70608	32.69517	183	-3.6	-10.68	-9.78	-12.62
368	90.37	184	12.68896	12.64865	25.65056	184	-3.89	-13.11	-10.18	-12.98
370	90.43	185	13.85953	14.28716	19.8513	185	-4.66	-14.32	-10.42	-13.21
372	90.44	186	14.77926	15.26689	16.39405	186	-5.17	-15.44	-10.57	-13.33
374	90.43	187	15.46488	15.99324	14.25651	187	-5.26	-15.88	-10.71	-13.31
376	90.43	188	15.93311	16.53378	12.88104	188	-5.47	-15.93	-10.92	-13.26
378	90.41	189	16.23411	16.90541	11.98885	189	-5.47	-15.56	-11.03	-13.18
380	90.41	190	16.46823	17.17568	11.84015	190	-5.16	-15.01	-11.04	-13.12
382	90.4	191	16.68562	17.39527	11.93309	191	-4.97	-14.64	-11.01	-13.03
384	90.38	192	16.8194	17.5473	11.95167	192	-4.8	-14.31	-10.95	-12.95
386	90.39	193	16.91973	17.64865	12.23048	193	-4.73	-13.81	-10.85	-12.88
388	90.38	194	16.90301	17.66554	13.0855	194	-4.75	-13.28	-10.77	-12.86
390	90.39	195	16.83612	17.53041	14.53532	195	-4.68	-12.73	-10.66	-12.83
392	90.4	196	16.71906	17.27703	16.69145	196	-4.65	-12.14	-10.56	-12.8
394	90.42	197	16.43478	16.83784	19.98141	197	-4.61	-11.5	-10.44	-12.78
396	90.45	198	16	16.0777	24.03346	198	-4.61	-11	-10.32	-12.74
		199	15.48161	15.09797	28.02974	199	-4.37	-10.56	-10.18	-12.71
		200	14.79599	13.83108	31.30112	200	-4.02	-10.2	-10.04	-12.67
		201	13.97659	12.36149	33.71747	201	-4.26	-9.88	-9.9	-12.63
		202	13.12375	11.16216	35.18587	202	-4.32	-9.59	-9.78	-12.59
		203	12.48829	10.60473	35.35316	203	-3.7	-9.82	-9.76	-12.65
		204	12.7893	11.97297	30.35316	204	-3.58	-11.92	-10.13	-12.91
		205	13.79264	13.78041	23.84758	205	-5.46	-14.43	-10.35	-13.17
		206	14.66221	14.96284	19.88848	206	-5.59	-14.75	-10.47	-13.17
		207	15.21405	15.80743	17.2119	207	-5.06	-14.68	-10.82	-13.08
		208	15.61538	16.46622	15.42751	208	-4.89	-14.53	-11.08	-12.99
		209	15.89967	16.95608	14.46097	209	-5.12	-14.13	-11.1	-12.97
		210	16.13378	17.24324	13.86617	210	-5.12	-13.77	-11.03	-12.92
		211	16.31773	17.41216	13.49442	211	-5.14	-13.4	-10.96	-12.83
		212	16.45151	17.58108	13.64312	212	-5	-13.02	-10.87	-12.78
		213	16.51839	17.59797	14.01487	213	-4.86	-12.57	-10.77	-12.73
		214	16.51839	17.51351	14.92565	214	-4.72	-12.11	-10.65	-12.69
		215	16.48495	17.31081	16.89591	215	-4.47	-11.69	-10.52	-12.63
		216	16.31773	16.90541	19.83271	216	-4.37	-11.1	-10.4	-12.6
		217	15.98328	16.17905	23.71747	217	-4.21	-10.67	-10.27	-12.56

218	15.49833	15.16554	27.82528	218	-4.18	-10.23	-10.14	-12.53
219	14.84615	13.88176	30.96654	219	-4.17	-9.81	-9.99	-12.48
220	14.01003	12.46284	32.84387	220	-4.42	-9.51	-9.86	-12.44
221	13.22408	11.5	33.95911	221	-3.85	-9.57	-9.78	-12.43
222	13.19064	12.17568	30.42751	222	-3.58	-11.32	-10.1	-12.72
223	13.94314	13.81419	24.07063	223	-5.19	-13.98	-10.37	-13.09
224	14.76254	15.06419	19.66543	224	-5.77	-14.74	-10.51	-13.22
225	15.34783	15.90878	16.7658	225	-5.5	-14.51	-10.72	-13.19
226	15.699	16.55068	14.98141	226	-5.18	-14.21	-10.92	-13.17
227	15.98328	17.05743	13.90335	227	-4.94	-13.98	-11.05	-13.11
228	16.21739	17.37838	13.17844	228	-5.06	-13.86	-11.09	-13.07
229	16.41806	17.5473	12.91822	229	-5.28	-13.5	-11.03	-13.03
230	16.58528	17.66554	12.95539	230	-5.13	-13.19	-10.98	-13
231	16.68562	17.73311	13.15985	231	-4.97	-12.78	-10.89	-12.95
232	16.6689	17.76689	13.94052	232	-4.91	-12.31	-10.79	-12.9
233	16.61873	17.64865	15.5948	233	-4.6	-11.91	-10.66	-12.86
234	16.48495	17.26014	17.95539	234	-4.32	-11.59	-10.57	-12.82
235	16.301	16.65203	21.22677	235	-4.29	-11.13	-10.45	-12.76
236	15.93311	15.84122	25.42751	236	-4.21	-10.62	-10.31	-12.71
237	15.3311	14.72635	29.08922	237	-4.1	-10.11	-10.16	-12.66
238	14.52843	13.375	31.44981	238	-3.94	-9.68	-10.02	-12.62
239	13.6087	12.09122	33.04833	239	-3.58	-9.44	-9.87	-12.57
240	13.22408	12.05743	31.39405	240	-3.36	-10.64	-10.02	-12.69
241	13.89298	13.42568	25.76208	241	-4.36	-12.93	-10.35	-13.01
242	14.76254	14.77703	20.5948	242	-5.63	-14.01	-10.56	-13.2
243	15.29766	15.73986	17.28625	243	-6.17	-14.21	-10.84	-13.14
244	15.61538	16.41554	15.31599	244	-7.75	-13	-10.97	-13.04
245	15.8495	16.88851	13.99628	245	-6.75	-12.33	-10.98	-12.95
246	16.06689	17.20946	13.0855	246	-5.56	-12.74	-10.98	-12.89
247	16.301	17.49662	12.69517	247	-5.52	-12.99	-10.98	-12.85
248	16.43478	17.75	12.56506	248	-5.35	-12.78	-10.94	-12.83
249	16.50167	17.88514	12.80669	249	-5.21	-12.59	-10.89	-12.78
250	16.58528	17.93581	13.40149	250	-5.08	-12.3	-10.79	-12.72
251	16.58528	17.86824	14.21933	251	-4.99	-11.89	-10.67	-12.68
252	16.53512	17.68243	16.05948	252	-4.78	-11.45	-10.56	-12.65
253	16.31773	17.31081	18.99628	253	-4.4	-11.11	-10.45	-12.6
254	15.98328	16.68581	22.62082	254	-4.33	-10.73	-10.33	-12.53
255	15.56522	15.73986	26.72862	255	-4.34	-10.27	-10.19	-12.5
256	14.94649	14.47297	29.77695	256	-4.1	-9.87	-10.07	-12.47
257	14.14381	13.08784	31.6171	257	-4.12	-9.52	-9.93	-12.43
258	13.55853	12.5473	30.78067	258	-3.57	-11.23	-10.01	-12.56
259	13.94314	13.61149	25.53903	259	-5.32	-15	-10.39	-12.91
260	14.66221	14.94595	20.09294	260	-8.5	-12.53	-10.78	-13.02
261	15.23077	15.84122	16.6171	261	-9.27	-11.71	-10.94	-12.97
262	15.54849	16.46622	14.38662	262	-9.45	-11.69	-11.02	-12.93

263	15.78261	16.97297	13.12268	263	-9.55	-11.83	-11.05	-12.9
264	16.01672	17.36149	12.41636	264	-9.55	-11.79	-11.05	-12.86
265	16.18395	17.71622	11.98885	265	-7.91	-11.89	-11.05	-12.84
266	16.28428	17.96959	11.93309	266	-6.32	-11.97	-11.05	-12.78
267	16.38462	18.10473	12.17472	267	-6.23	-11.87	-11.03	-12.76
268	16.43478	18.20608	12.60223	268	-6.56	-11.58	-10.98	-12.74
269	16.33445	18.15541	13.25279	269	-7.95	-11.24	-10.88	-12.71
270	16.25084	18.05405	14.57249	270	-7.19	-11.05	-10.77	-12.67
271	16.08361	17.86824	16.52416	271	-6.11	-10.9	-10.65	-12.62
272	15.89967	17.51351	19.21933	272	-5.03	-10.9	-10.54	-12.57
273	15.63211	16.93919	22.76952	273	-4.84	-10.58	-10.41	-12.55
274	15.24749	16.04392	26.44981	274	-5.29	-10.19	-10.27	-12.52
275	14.69565	14.91216	29.34944	275	-5.21	-9.89	-10.13	-12.47
276	13.99331	13.67905	31.3197	276	-5.06	-9.63	-9.99	-12.41
277	13.25753	12.56419	32.76952	277	-4.59	-9.53	-9.87	-12.42
278	13.05686	12.71622	30.76208	278	-3.73	-11.36	-10.08	-12.64
279	13.77592	14.13514	25.33457	279	-5.46	-13.86	-10.36	-12.96
280	14.66221	15.36824	20.85502	280	-6.02	-14.95	-10.52	-13.04
281	15.26421	16.19595	18.02974	281	-5.57	-14.5	-10.76	-13.01
282	15.71572	16.78716	16.24535	282	-5	-13.67	-10.92	-12.93
283	16.05017	17.20946	15.05576	283	-4.9	-13.4	-10.98	-12.83
284	16.26756	17.5473	14.21933	284	-4.77	-13.17	-10.98	-12.78
285	16.41806	17.73311	13.88476	285	-4.59	-12.83	-10.94	-12.74
286	16.46823	17.88514	13.94052	286	-4.77	-12.08	-10.87	-12.69
287	16.38462	17.86824	14.46097	287	-5.23	-11.42	-10.77	-12.66
288	16.25084	17.68243	15.42751	288	-5.71	-10.95	-10.67	-12.64
289	16.08361	17.36149	17.30483	289	-5.69	-10.65	-10.56	-12.6
290	15.83278	16.97297	20.16729	290	-4.71	-10.54	-10.44	-12.55
291	15.48161	16.34797	23.51301	291	-4.88	-10.21	-10.31	-12.51
292	15.01338	15.40203	27.02602	292	-4.9	-9.92	-10.17	-12.44
293	14.39465	14.21959	29.57249	293	-5.15	-9.64	-10.04	-12.39
294	13.72575	13.00338	31.09665	294	-4.72	-9.53	-9.91	-12.37
295	13.35786	12.81757	31.07807	295	-4.71	-11.29	-10.02	-12.46
296	13.7592	13.98311	28.56877	296	-4.4	-11.73	-10.16	-12.54
297	14.3612	15.18243	25.61338	297	-4.3	-11.41	-10.21	-12.56
298	14.82943	15.90878	23.84758	298	-4.17	-10.98	-10.21	-12.55
299	15.09699	16.2973	23.14126	299	-4.12	-10.49	-10.16	-12.52
300	15.1806	16.44932	23.15985	300	-4.04	-10	-10.1	-12.48
301	15.08027	16.33108	23.77323	301	-4.5	-9.54	-10.02	-12.42
302	14.89632	15.90878	24.44238	302	-4.82	-10.1	-9.95	-12.42
303	14.89632	15.99324	23.0855	303	-5.47	-12.59	-10.14	-12.58
304	15.26421	16.53378	19.7026	304	-8.18	-10.69	-10.37	-12.67
305	15.63211	17.04054	16.97026	305	-5.97	-10.77	-10.49	-12.7
306	15.89967	17.47973	15.22305	306	-6.28	-10.6	-10.55	-12.72
307	16.05017	17.78378	13.95911	307	-7.23	-10.34	-10.55	-12.73

308	16.10033	17.96959	13.25279	308	-5.48	-10.26	-10.51	-12.72
309	16.06689	18.03716	13.25279	309	-5.99	-10.13	-10.44	-12.7
310	16.05017	17.9527	13.92193	310	-6.4	-9.95	-10.35	-12.68
311	15.98328	17.73311	15.46468	311	-6.25	-9.82	-10.27	-12.66
312	15.78261	17.3277	17.56506	312	-5.88	-9.65	-10.17	-12.63
313	15.38127	16.7027	19.66543	313	-5.42	-9.53	-10.06	-12.59
314	15.06355	16.24662	20.65056	314	-5.94	-10.98	-10.12	-12.67
315	15.21405	16.68581	19.27509	315	-6.83	-10.24	-10.3	-12.73
316	15.48161	17.22635	17.24907	316	-5.01	-10.3	-10.4	-12.7
317	15.699	17.56419	16.00372	317	-6.04	-10.02	-10.41	-12.66
318	15.81605	17.80068	15.33457	318	-5.11	-9.92	-10.38	-12.61
319	15.88294	17.85135	15.31599	319	-6.62	-9.79	-10.31	-12.57
320	15.81605	17.71622	15.92937	320	-6.47	-9.66	-10.22	-12.55
321	15.68227	17.34459	16.89591	321	-6.01	-9.53	-10.13	-12.51
322	15.38127	16.82095	17.99257	322	-5.43	-9.6	-10.04	-12.47
323	15.14716	16.61824	17.86245	323	-7.18	-10.69	-10.15	-12.56
324	15.36455	16.98986	15.70632	324	-8.11	-10.09	-10.34	-12.6
325	15.66555	17.42905	13.25279	325	-8.11	-10.08	-10.43	-12.59
326	15.91639	17.80068	11.69145	326	-7.89	-10.11	-10.46	-12.58
327	16.11706	18.07095	10.81784	327	-7.64	-10.12	-10.45	-12.55
328	16.21739	18.22297	10.52045	328	-7.58	-10.09	-10.41	-12.53
329	16.21739	18.25676	10.91078	329	-7.18	-9.99	-10.34	-12.51
330	16.11706	18.15541	12.00743	330	-6.79	-9.87	-10.26	-12.48
331	15.96656	17.86824	13.56877	331	-6.27	-9.73	-10.16	-12.45
332	15.71572	17.39527	15.22305	332	-5.83	-9.59	-10.05	-12.39
333	15.3311	16.85473	16.33829	333	-5.4	-10.09	-9.98	-12.41
334	15.11371	16.73649	15.85502	334	-7.67	-10.42	-10.17	-12.56
335	15.38127	17.19257	13.69888	335	-8.11	-10.18	-10.36	-12.65
336	15.71572	17.63176	11.59851	336	-8.16	-10.19	-10.44	-12.69
337	15.98328	18.00338	10.18587	337	-7.48	-10.22	-10.47	-12.71
338	16.1505	18.23986	9.516729	338	-7.87	-10.24	-10.46	-12.72
339	16.21739	18.35811	9.553903	339	-6.32	-10.17	-10.42	-12.71
340	16.18395	18.375	10.01859	340	-6.31	-10.07	-10.36	-12.69
341	16.1505	18.22297	11.26394	341	-6.45	-9.95	-10.27	-12.67
342	15.98328	17.91892	13.04833	342	-6.08	-9.83	-10.17	-12.64
343	15.66555	17.3277	14.59108	343	-5.69	-9.69	-10.06	-12.61
344	15.21405	16.58446	16.0223	344	-5.36	-9.52	-9.95	-12.58
345	14.64548	15.94257	17.26766	345	-5.75	-10.03	-9.88	-12.6
346	14.44482	16.01014	14.96283	346	-8.19	-11.2	-10.23	-12.75
347	14.81271	16.78716	10.53903	347	-8.86	-10.89	-10.5	-12.84
348	15.36455	17.44595	7.509294	348	-9.31	-10.99	-10.67	-12.9
349	15.81605	17.93581	5.70632	349	-9.46	-11.12	-10.77	-12.92
350	16.10033	18.29054	4.795539	350	-9.46	-11.26	-10.83	-12.93
351	16.301	18.45946	4.386617	351	-9.42	-11.36	-10.86	-12.93
352	16.45151	18.5777	4.200743	352	-9.32	-11.38	-10.85	-12.91

353	16.51839	18.67905	4.256506	353	-9.14	-11.32	-10.82	-12.9
354	16.53512	18.69595	4.591078	354	-8.81	-11.22	-10.78	-12.88
355	16.48495	18.72973	5.130112	355	-8.3	-11.11	-10.72	-12.86
356	16.38462	18.67905	5.910781	356	-7.6	-10.99	-10.63	-12.83
357	16.26756	18.56081	7.620818	357	-7.14	-10.85	-10.53	-12.8
358	16.06689	18.23986	10.24164	358	-6.67	-10.69	-10.42	-12.75
359	15.76589	17.71622	13.36431	359	-6.25	-10.5	-10.3	-12.71
360	15.31438	17.07432	16.171	360	-5.9	-10.28	-10.18	-12.65
361	14.76254	16.24662	18.47584	361	-5.59	-10.06	-10.05	-12.58
362	14.11037	15.19932	20.55762	362	-5.39	-9.87	-9.92	-12.5
363	13.29097	14.05068	22.88104	363	-5.18	-9.64	-9.78	-12.42
364	12.25418	12.68243	25.52045	364	-4.33	-9.28	-9.66	-12.36
365	11.35117	12.22635	24.07063	365	-5.9	-10.15	-9.87	-12.47
366	11	13.5777	16.33829	366	-7.62	-11.87	-10.58	-12.56
367	11.33445	15.13176	8.605948	367	-8.04	-12.72	-11.1	-12.59
368	11.8194	16.28041	3.3829	368	-8.3	-13.31	-11.42	-12.63
369	12.18729	17.17568	0.70632	369	-8.26	-13.65	-11.58	-12.66
370	12.45485	17.75	0.148699	370	-7.99	-13.76	-11.63	-12.68
371	12.68896	18.07095	0.557621	371	-7.92	-13.91	-11.64	-12.71
372	13.04013	18.35811	0.817844	372	-8.08	-14.01	-11.64	-12.73
373	13.34114	18.62838	0.743494	373	-8.07	-14.09	-11.65	-12.74
374	13.50836	18.7973	0.483271	374	-8.09	-14.2	-11.69	-12.76
375	13.49164	18.96622	0.167286	375	-8.06	-14.3	-11.73	-12.77
376	13.40803	19.16892	1.003717	376	-8	-14.35	-11.75	-12.77
377	13.3913	19.23649	2.04461	377	-7.91	-14.35	-11.75	-12.77
378	13.40803	19.27027	2.992565	378	-7.8	-14.32	-11.73	-12.76
379	13.35786	19.38851	3.996283	379	-7.67	-14.25	-11.71	-12.76
380	13.25753	19.50676	4.981413	380	-7.51	-14.14	-11.67	-12.74
381	13.17391	19.54054	5.892193	381	-7.32	-14	-11.61	-12.73
382	13.17391	19.59122	6.654275	382	-7.12	-13.85	-11.55	-12.73
383	13.14047	19.54054	7.379182	383	-6.9	-13.67	-11.48	-12.73
384	12.98997	19.55743	8.457249	384	-6.64	-13.45	-11.39	-12.7
385	12.88963	19.50676	10.13011	385	-6.39	-13.21	-11.29	-12.68
386	12.77258	19.4223	12.39777	386	-6.14	-12.96	-11.19	-12.67
387	12.60535	19.27027	15.42751	387	-5.9	-12.69	-11.08	-12.64
388	12.37124	18.94932	18.79182	388	-5.65	-12.39	-10.96	-12.62
389	12.03679	18.45946	22.04461	389	-5.41	-12.08	-10.86	-12.6
390	11.6689	17.71622	25.11152	390	-5.14	-11.75	-10.74	-12.58
391	11.25084	16.71959	27.88104	391	-4.89	-11.4	-10.61	-12.55
392	10.699	15.48649	31.00372	392	-4.67	-11.05	-10.49	-12.53
393	10.14716	14.10135	34.03346	393	-4.49	-10.71	-10.38	-12.51
394	9.61204	12.59797	36.9145	394	-4.42	-10.37	-10.26	-12.5
395	8.993311	11.0777	39.49814	395	-4.37	-10.02	-10.15	-12.5
396	8.558528	9.912162	41.44981	396	-4.32	-9.67	-10.04	-12.51
397	8.274247	9.287162	43.02974	397	-4.32	-9.48	-9.93	-12.52

Adsorp_exp_10

Experiment type: Adsorption experiment. The regolith type is JSC Mars-1 in this experiment, with a thickness of 2 mm. The initial weight was 41.37 g. The humidity buffer was LiCl which has a RH of 11.31 at 0 degrees Celsius. Temperature around the sample was as close to 0 degrees Celsius as possible, cooled with the chiller system.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= humidity buffer 3= atmosphere 4= sample

Mass		RH				T				
Min.	Mass	Min.	Ch02	Ch03	Ch04	Min.	Ch01	Ch02	Ch03	Ch04
0	41.66	0	27.47826	22.11486	19.10781	0	11.06	-1.25	-4.59	-11.89
2	41.5	1	27.49498	26.64189	17.71375	1	3.89	-2.36	-4.77	-12.32
4	41.46	2	27.31104	30.32432	15.85502	2	-2.86	-5.44	-5.62	-12.59
6	41.52	3	27.31104	28.73649	15.07435	3	-1.13	-3.47	-5.85	-12.66
8	41.58	4	27.46154	26.25338	15.26022	4	0.05	-2.65	-5.73	-12.67
10	41.64	5	27.54515	23.56757	15.78067	5	0.6	-2.24	-5.67	-12.67
12	41.68	6	27.32776	20.98311	16.26394	6	1.72	-1.89	-5.66	-12.66
14	41.71	7	26.67559	18.73649	15.89219	7	3.21	-1.56	-5.64	-12.61
16	41.72	8	25.80602	16.38851	14.14498	8	3.97	-1.27	-5.62	-12.57
18	41.69	9	24.71906	13.7027	11.3197	9	4.21	-1	-5.6	-12.52
20	41.67	10	23.26421	10.81419	8.364312	10	4.26	-0.75	-5.6	-12.45
22	41.66	11	21.6087	8.212838	5.855019	11	4.31	-0.5	-5.59	-12.35
24	41.67	12	19.8194	6.050676	3.698885	12	4.35	-0.27	-5.59	-12.3
26	41.68	13	18.09699	4.040541	1.765799	13	4.39	-0.05	-5.58	-12.28
28	41.7	14	16.40803	2.368243	0.092937	14	4.43	0.15	-5.58	-12.26
30	41.73	15	14.68562	1	1.598513	15	4.47	0.33	-5.58	-12.24
32	41.75	16	13.23077	0.266892	2.825279	16	4.5	0.5	-5.59	-12.22
34	41.76	17	11.27425	3.138514	4.925651	17	4.44	0.64	-5.59	-12.2
36	41.77	18	7.662207	7.817568	7.992565	18	3.34	0.32	-5.93	-12.25
38	41.78	19	3.765886	11.53378	10.42751	19	2.59	-0.18	-6.43	-12.26
40	41.79	20	0.923077	13.39189	11.7658	20	1.59	-0.69	-6.75	-12.25
42	41.8	21	1.050167	14.43919	12.62082	21	0.8	-1.18	-6.94	-12.26
44	41.8	22	2.354515	15.0473	13.12268	22	0.55	-1.61	-7.02	-12.25
46	41.81	23	3.257525	15.18243	13.25279	23	0.57	-1.95	-7.05	-12.26
48	41.81	24	3.859532	14.91216	13.14126	24	0.64	-2.22	-7.04	-12.28
50	41.82	25	4.160535	14.25338	12.89963	25	0.73	-2.41	-6.98	-12.29

52	41.82	26	4.160535	13.13851	12.43494	26	0.91	-2.55	-6.93	-12.3
54	41.83	27	3.926421	11.68581	11.72862	27	1.15	-2.63	-6.85	-12.27
56	41.83	28	3.458194	10.09797	10.87361	28	1.38	-2.66	-6.76	-12.24
58	41.83	29	2.80602	8.527027	10	29	1.61	-2.64	-6.66	-12.23
60	41.84	30	2.020067	6.972973	8.977695	30	1.72	-2.58	-6.57	-12.2
62	41.84	31	1.150502	5.452703	7.732342	31	1.85	-2.49	-6.47	-12.17
64	41.82	32	0.247492	4.101351	6.6171	32	2.09	-2.37	-6.37	-12.15
66	41.79	33	0.622074	3.239865	5.799257	33	2.36	-2.23	-6.29	-12.13
68	41.77	34	1.341137	3.206081	5.334572	34	2.64	-2.08	-6.2	-12.11
70	41.75	35	1.809365	4.185811	5.594796	35	2.87	-1.94	-6.14	-12.11
72	41.75	36	2.026756	5.266892	6.226766	36	3.03	-1.8	-6.1	-12.09
74	41.76	37	2.010033	6.077703	6.895911	37	3.15	-1.65	-6.07	-12.07
76	41.77	38	1.675585	6.85473	7.60223	38	3.2	-1.51	-6.06	-12.07
78	41.78	39	1.056856	7.564189	8.3829	39	3.25	-1.38	-6.07	-12.06
80	41.79	40	0.354515	8.324324	9.182156	40	3.3	-1.24	-6.1	-12.05
82	41.8	41	0.364548	9.033784	9.944238	41	3.35	-1.11	-6.1	-12.02
84	41.8	42	1.033445	9.608108	10.63197	42	3.4	-0.99	-6.11	-12.01
86	41.8	43	1.602007	10.08108	11.18959	43	3.45	-0.88	-6.1	-11.99
88	41.81	44	2.120401	10.4527	11.69145	44	3.49	-0.77	-6.09	-11.98
90	41.81	45	2.571906	10.73986	12.2119	45	3.54	-0.67	-6.07	-11.97
92	41.81	46	3.023411	11.04392	12.65799	46	3.58	-0.57	-6.06	-11.96
94	41.82	47	3.374582	11.31419	12.99257	47	3.63	-0.48	-6.04	-11.94
96	41.82	48	3.64214	11.5	13.27138	48	3.67	-0.39	-6.02	-11.96
98	41.82	49	3.959866	11.7027	13.5316	49	3.71	-0.31	-6	-11.99
100	41.82	50	4.210702	11.88851	13.84758	50	3.74	-0.24	-5.98	-12.02
102	41.83	51	4.394649	11.97297	14.16357	51	3.77	-0.16	-5.96	-12.03
104	41.83	52	4.645485	12.125	14.38662	52	3.81	-0.08	-5.93	-12.03
106	41.83	53	4.879599	12.27703	14.57249	53	3.85	0	-5.91	-12.01
108	41.83	54	5.080268	12.34459	14.8513	54	3.88	0.06	-5.89	-11.99
110	41.84	55	5.264214	12.46284	15.16729	55	3.92	0.13	-5.87	-11.95
112	41.84	56	5.397993	12.59797	15.39033	56	3.95	0.2	-5.85	-11.93
114	41.84	57	5.51505	12.68243	15.46468	57	3.98	0.26	-5.82	-11.9
116	41.82	58	5.665552	12.80068	15.61338	58	4.01	0.31	-5.81	-11.9
118	41.79	59	5.765886	12.88514	15.81784	59	4.04	0.37	-5.79	-11.89
120	41.77	60	5.899666	12.93581	15.98513	60	4.07	0.42	-5.77	-11.88
122	41.76	61	6.050167	13.02027	16.11524	61	4.11	0.48	-5.75	-11.89
124	41.76	62	6.217391	13.08784	16.18959	62	4.13	0.53	-5.74	-11.89
126	41.77	63	6.317726	13.15541	16.33829	63	4.16	0.58	-5.72	-11.89
128	41.78	64	6.434783	13.18919	16.50558	64	4.19	0.63	-5.71	-11.88
130	41.79	65	6.886288	14.13514	17.19331	65	3.43	0.49	-5.77	-11.89
132	41.79	66	7.688963	15.63851	18.28996	66	1.77	-0.1	-6.18	-11.95
134	41.8	67	8.608696	16.68581	19.01487	67	1.04	-0.73	-6.49	-12
136	41.8	68	9.494983	17.31081	19.36803	68	0.63	-1.34	-6.64	-12.03
138	41.8	69	10.21405	17.71622	19.51673	69	0.43	-1.88	-6.72	-12.03
140	41.8	70	10.79933	18.03716	19.59108	70	0.4	-2.34	-6.79	-12.04

142	41.81	71	11.23411	18.13851	19.51673	71	0.37	-2.76	-6.83	-12.04
144	41.81	72	11.48495	18.12162	19.33086	72	0.32	-3.11	-6.84	-12.03
146	41.81	73	11.60201	17.93581	19.05204	73	0.29	-3.37	-6.84	-12.02
148	41.81	74	11.53512	17.58108	18.64312	74	0.33	-3.53	-6.83	-12.01
150	41.82	75	11.36789	17.00676	18.01115	75	0.39	-3.62	-6.8	-12
152	41.82	76	11.01672	16.14527	17.19331	76	0.46	-3.65	-6.76	-11.99
154	41.82	77	10.51505	15.16554	16.171	77	0.55	-3.61	-6.71	-11.99
156	41.82	78	9.913043	14.10135	15.09294	78	0.67	-3.54	-6.65	-12.02
158	41.83	79	9.177258	12.93581	14.16357	79	0.84	-3.41	-6.57	-12.03
160	41.83	80	8.424749	12.14189	13.27138	80	1.13	-3.26	-6.49	-12.06
162	41.83	81	7.722408	11.87162	12.47212	81	1.3	-3.1	-6.41	-12.06
164	41.83	82	7.020067	11.98986	11.98885	82	1.53	-2.93	-6.35	-12.04
166	41.81	83	6.535117	12.22635	11.98885	83	1.72	-2.77	-6.3	-12.02
168	41.78	84	6.351171	12.58108	12.34201	84	1.86	-2.6	-6.25	-12.01
170	41.76	85	6.401338	12.98649	12.75093	85	1.96	-2.44	-6.24	-12
172	41.76	86	6.585284	13.34122	13.19703	86	2.05	-2.28	-6.24	-11.98
174	41.75	87	6.819398	13.59459	13.66171	87	2.16	-2.13	-6.22	-11.96
176	41.75	88	7.120401	13.78041	13.99628	88	2.26	-1.99	-6.19	-11.93
178	41.75	89	7.354515	13.96622	14.27509	89	2.37	-1.85	-6.17	-11.91
180	41.76	90	7.488294	14.15203	14.57249	90	2.48	-1.72	-6.15	-11.9
182	41.77	91	7.588629	14.23649	14.8513	91	2.61	-1.59	-6.12	-11.91
184	41.78	92	7.672241	14.32095	15.03717	92	2.72	-1.47	-6.11	-11.95
186	41.79	93	7.789298	14.32095	15.2974	93	2.86	-1.35	-6.09	-11.97
188	41.79	94	7.87291	14.38851	15.5948	94	3.01	-1.24	-6.07	-11.99
190	41.79	95	7.939799	14.48986	15.91078	95	3.16	-1.13	-6.05	-12
192	41.79	96	7.989967	14.4223	16.20818	96	3.3	-1.02	-6.03	-12.01
194	41.8	97	7.989967	14.40541	16.44981	97	3.42	-0.92	-6.01	-12.01
196	41.8	98	7.956522	14.45608	16.65428	98	3.51	-0.82	-5.99	-12.01
198	41.8	99	7.973244	14.45608	16.85874	99	3.6	-0.72	-5.97	-12
200	41.81	100	8.006689	14.54054	17.08178	100	3.66	-0.63	-5.96	-11.98
202	41.81	101	8.040134	14.54054	17.2119	101	3.72	-0.53	-5.94	-11.93
204	41.81	102	7.989967	14.45608	17.34201	102	3.79	-0.43	-5.9	-11.91
206	41.81	103	8.023411	14.50676	17.52788	103	3.83	-0.35	-5.9	-11.92
208	41.82	104	8.056856	14.48986	17.62082	104	3.87	-0.27	-5.88	-11.93
210	41.82	105	8.006689	14.45608	17.76952	105	3.9	-0.2	-5.86	-11.95
212	41.82	106	8.023411	14.43919	17.89963	106	3.94	-0.13	-5.85	-11.96
214	41.82	107	8.006689	14.38851	17.99257	107	3.98	-0.05	-5.83	-11.95
216	41.83	108	8.056856	14.45608	18.04833	108	4.01	0.02	-5.82	-11.95
218	41.83	109	8.090301	14.50676	18.12268	109	4.05	0.09	-5.8	-11.96
220	41.82	110	8.107023	14.54054	18.15985	110	4.09	0.16	-5.79	-11.95
222	41.79	111	8.090301	14.48986	18.21561	111	4.13	0.23	-5.76	-11.94
224	41.77	112	8.073579	14.50676	18.32714	112	4.16	0.29	-5.74	-11.93
226	41.76	113	8.107023	14.50676	18.34572	113	4.19	0.35	-5.73	-11.9
228	41.76	114	8.140468	14.48986	18.40149	114	4.22	0.41	-5.7	-11.86
230	41.76	115	8.157191	14.47297	18.47584	115	4.26	0.47	-5.69	-11.85

232	41.77	116	8.107023	14.55743	18.5316	116	4.3	0.54	-5.66	-11.85
234	41.78	117	8.441472	15.16554	19.07063	117	3.58	0.43	-5.71	-11.9
236	41.79	118	9.177258	16.33108	19.96283	118	1.95	-0.09	-6.03	-11.97
238	41.79	119	10.04682	17.27703	20.72491	119	1.14	-0.64	-6.3	-12
240	41.79	120	10.8495	17.88514	21.20818	120	0.85	-1.17	-6.43	-12.03
242	41.79	121	11.50167	18.20608	21.37546	121	0.78	-1.71	-6.52	-12.04
244	41.79	122	12.00334	18.34122	21.43123	122	0.64	-2.2	-6.58	-12.05
246	41.8	123	12.20401	18.32432	21.30112	123	0.56	-2.56	-6.62	-12.04
248	41.8	124	12.22074	18.1723	21.0223	124	0.54	-2.85	-6.65	-12.04
250	41.8	125	12.18729	17.85135	20.5948	125	0.57	-3.05	-6.65	-12.03
252	41.81	126	12.05351	17.41216	20.01859	126	0.62	-3.18	-6.64	-12.02
254	41.81	127	11.83612	16.83784	19.18216	127	0.68	-3.24	-6.61	-12
256	41.81	128	11.41806	16.0777	17.99257	128	0.78	-3.24	-6.56	-11.97
258	41.81	129	10.81605	15.23311	16.7658	129	0.85	-3.2	-6.5	-11.95
260	41.81	130	10.04682	14.35473	15.61338	130	0.96	-3.1	-6.43	-11.95
262	41.81	131	9.294314	13.62838	14.60967	131	1.2	-2.96	-6.36	-11.99
264	41.82	132	8.692308	13.30743	13.86617	132	1.41	-2.81	-6.29	-11.98
266	41.82	133	8.207358	13.44257	13.51301	133	1.59	-2.65	-6.24	-11.97
268	41.83	134	7.956522	13.74662	13.73606	134	1.74	-2.5	-6.21	-11.95
270	41.79	135	7.939799	14.05068	14.01487	135	1.9	-2.35	-6.19	-11.91
272	41.77	136	8.040134	14.32095	14.36803	136	2.04	-2.2	-6.17	-11.89
274	41.75	137	8.157191	14.625	14.77695	137	2.16	-2.07	-6.15	-11.9
276	41.75	138	8.307692	14.8277	15.20446	138	2.24	-1.93	-6.13	-11.88
278	41.75	139	8.424749	14.94595	15.61338	139	2.3	-1.81	-6.12	-11.87
280	41.75	140	8.508361	15.03041	15.98513	140	2.37	-1.68	-6.09	-11.85
282	41.77	141	8.608696	15.03041	16.37546	141	2.45	-1.55	-6.07	-11.84
284	41.78	142	8.70903	15.11486	16.69145	142	2.53	-1.43	-6.04	-11.83
286	41.78	143	8.809365	15.16554	16.93309	143	2.61	-1.33	-6.03	-11.83
288	41.78	144	8.876254	15.19932	17.0632	144	2.71	-1.22	-6.01	-11.82
290	41.78	145	8.926421	15.16554	17.23048	145	2.81	-1.11	-5.99	-11.83
292	41.79	146	8.909699	15.16554	17.34201	146	2.92	-1.01	-5.98	-11.82
294	41.79	147	8.909699	15.16554	17.45353	147	3.04	-0.91	-5.96	-11.82
296	41.79	148	8.943144	15.14865	17.62082	148	3.15	-0.82	-5.95	-11.81
298	41.8	149	8.926421	15.13176	17.76952	149	3.27	-0.72	-5.92	-11.79
300	41.8	150	8.859532	15.06419	17.89963	150	3.4	-0.62	-5.89	-11.81
302	41.8	151	8.842809	15.06419	17.95539	151	3.51	-0.53	-5.87	-11.84
304	41.8	152	8.826087	15.01351	18.04833	152	3.62	-0.44	-5.85	-11.86
306	41.81	153	8.742475	15.06419	18.15985	153	3.72	-0.34	-5.83	-11.86
308	41.81	154	8.675585	15.11486	18.30855	154	3.8	-0.25	-5.81	-11.87
310	41.81	155	8.675585	15.01351	18.45725	155	3.88	-0.17	-5.8	-11.87
312	41.81	156	8.658863	14.96284	18.51301	156	3.94	-0.09	-5.78	-11.88
314	41.81	157	8.658863	15.03041	18.58736	157	4	-0.01	-5.76	-11.87
316	41.81	158	8.658863	14.99662	18.6803	158	4.05	0.06	-5.74	-11.87
318	41.79	159	8.608696	14.97973	18.75465	159	4.08	0.13	-5.73	-11.86
320	41.77	160	8.558528	15.01351	18.75465	160	4.13	0.2	-5.72	-11.84

322	41.75	161	8.575251	15.01351	18.829	161	4.18	0.28	-5.69	-11.8
324	41.75	162	8.575251	14.97973	18.90335	162	4.21	0.34	-5.68	-11.77
326	41.75	163	8.591973	14.96284	18.9777	163	4.25	0.41	-5.66	-11.77
328	41.75	164	8.608696	14.94595	19.03346	164	4.28	0.47	-5.64	-11.77
330	41.77	165	8.625418	15.01351	19.12639	165	4.32	0.54	-5.61	-11.75
332	41.78	166	8.658863	15.09797	19.31227	166	4.33	0.59	-5.6	-11.73
334	41.78	167	9.010033	15.84122	19.90706	167	2.81	0.29	-5.72	-11.81
336	41.78	168	9.779264	16.97297	20.81784	168	1.26	-0.43	-6.16	-11.89
338	41.78	169	10.64883	17.78378	21.43123	169	0.69	-1.13	-6.44	-11.93
340	41.79	170	11.45151	18.30743	21.71004	170	0.36	-1.78	-6.59	-11.94
342	41.79	171	12.1204	18.59459	21.87732	171	0.53	-2.43	-6.7	-11.93
344	41.79	172	12.57191	18.74662	21.93309	172	0.78	-3	-6.77	-11.91
346	41.8	173	12.80602	18.74662	21.95167	173	0.96	-3.44	-6.83	-11.9
348	41.8	174	12.9398	18.72973	21.89591	174	1.01	-3.8	-6.87	-11.87
350	41.8	175	13.05686	18.69595	21.82156	175	1.05	-4.08	-6.88	-11.86
352	41.8	176	13.07358	18.5777	21.6171	176	1.02	-4.29	-6.88	-11.86
354	41.81	177	13.04013	18.35811	21.33829	177	0.92	-4.43	-6.87	-11.87
356	41.81	178	12.95652	18.03716	20.79926	178	0.82	-4.51	-6.85	-11.86
358	41.81	179	12.80602	17.58108	20.11152	179	0.76	-4.52	-6.8	-11.84
360	41.81	180	12.52174	17.04054	19.25651	180	0.68	-4.5	-6.76	-11.83
362	41.81	181	12.10368	16.36486	18.14126	181	0.67	-4.43	-6.69	-11.8
364	41.81	182	11.53512	15.52027	16.9145	182	0.68	-4.32	-6.61	-11.8
		183	10.79933	14.57432	15.61338	183	0.67	-4.16	-6.53	-11.81
		184	9.979933	13.71284	14.4052	184	0.82	-3.94	-6.45	-11.83
		185	9.177258	13.39189	13.49442	185	1.19	-3.72	-6.38	-11.86
		186	8.541806	13.40878	13.04833	186	1.34	-3.49	-6.31	-11.91
		187	8.090301	13.56081	13.04833	187	1.5	-3.27	-6.27	-11.89
		188	7.822742	13.7973	13.32714	188	1.64	-3.07	-6.25	-11.89
		189	7.688963	14.10135	13.71747	189	1.79	-2.85	-6.22	-11.9
		190	7.73913	14.43919	14.14498	190	1.93	-2.66	-6.21	-11.92
		191	7.989967	14.67568	14.60967	191	2.06	-2.48	-6.18	-11.94
		192	8.22408	14.91216	15.09294	192	2.18	-2.29	-6.14	-11.94
		193	8.35786	15.0473	15.55762	193	2.27	-2.13	-6.12	-11.94
		194	8.441472	15.06419	15.98513	194	2.33	-1.98	-6.1	-11.96
		195	8.575251	15.14865	16.37546	195	2.39	-1.83	-6.08	-11.96
		196	8.70903	15.19932	16.72862	196	2.45	-1.69	-6.06	-11.97
		197	8.792642	15.21622	16.95167	197	2.51	-1.54	-6.04	-11.96
		198	8.826087	15.25	17.15613	198	2.58	-1.41	-6.02	-11.96
		199	8.859532	15.23311	17.36059	199	2.66	-1.28	-5.99	-11.95
		200	8.926421	15.30068	17.47212	200	2.74	-1.16	-5.97	-11.91
		201	8.959866	15.28378	17.62082	201	2.83	-1.05	-5.94	-11.87
		202	8.943144	15.28378	17.69517	202	2.92	-0.93	-5.91	-11.82
		203	9.010033	15.28378	17.80669	203	3	-0.83	-5.9	-11.79
		204	8.993311	15.31757	17.84387	204	3.1	-0.73	-5.88	-11.77
		205	8.976589	15.30068	17.99257	205	3.2	-0.63	-5.86	-11.76

206	9.026756	15.26689	18.10409	206	3.3	-0.53	-5.82	-11.73
207	8.943144	15.28378	18.19703	207	3.41	-0.43	-5.81	-11.72
208	8.926421	15.23311	18.28996	208	3.51	-0.35	-5.79	-11.7
209	8.909699	15.18243	18.42007	209	3.61	-0.26	-5.77	-11.71
210	8.892977	15.19932	18.5316	210	3.72	-0.17	-5.74	-11.72
211	8.909699	15.19932	18.62454	211	3.81	-0.08	-5.73	-11.73
212	8.892977	15.13176	18.64312	212	3.9	0	-5.71	-11.73
213	8.826087	15.13176	18.75465	213	3.98	0.07	-5.7	-11.74
214	8.809365	15.16554	18.81041	214	4.05	0.15	-5.68	-11.71
215	8.725753	15.11486	18.94052	215	4.11	0.22	-5.66	-11.72
216	8.742475	15.09797	19.07063	216	4.16	0.29	-5.64	-11.74
217	8.742475	15.11486	19.14498	217	4.21	0.36	-5.62	-11.75
218	8.759197	15.16554	19.25651	218	4.26	0.42	-5.61	-11.74
219	8.77592	15.14865	19.27509	219	4.3	0.49	-5.59	-11.72
220	8.77592	15.14865	19.36803	220	4.34	0.56	-5.57	-11.71
221	8.842809	15.31757	19.60967	221	4.24	0.6	-5.56	-11.71
222	9.277592	16.14527	20.2974	222	2.47	0.21	-5.75	-11.74
223	10.11371	17.22635	21.171	223	1.3	-0.36	-6.07	-11.77
224	11.05017	17.86824	21.69145	224	1.02	-0.94	-6.23	-11.81
225	11.80268	18.18919	21.93309	225	0.95	-1.55	-6.35	-11.86
226	12.32107	18.39189	21.98885	226	0.85	-2.04	-6.45	-11.9
227	12.62207	18.44257	21.95167	227	0.8	-2.45	-6.53	-11.94
228	12.80602	18.40878	21.82156	228	0.79	-2.76	-6.56	-11.96
229	12.88963	18.29054	21.59851	229	0.77	-3	-6.57	-11.95
230	12.83946	18.03716	21.24535	230	0.83	-3.16	-6.56	-11.92
231	12.68896	17.61486	20.57621	231	0.89	-3.27	-6.53	-11.89
232	12.45485	17.05743	19.68401	232	1.23	-3.31	-6.48	-11.85
233	12.07023	16.38176	18.66171	233	1.73	-3.28	-6.44	-11.84
234	11.51839	15.52027	17.41636	234	1.56	-3.2	-6.38	-11.83
235	10.81605	14.70946	16.04089	235	1.5	-3.09	-6.32	-11.83
236	10.06355	14.13514	14.81413	236	1.63	-2.96	-6.25	-11.83
237	9.478261	13.83108	13.95911	237	2.16	-2.81	-6.18	-11.83
238	9.076923	13.86486	13.66171	238	2.12	-2.67	-6.16	-11.84
239	8.792642	14.15203	13.92193	239	2.07	-2.52	-6.16	-11.85
240	8.608696	14.47297	14.31227	240	2.09	-2.37	-6.17	-11.83
241	8.525084	14.72635	14.75836	241	2.2	-2.22	-6.15	-11.82
242	8.591973	14.97973	15.35316	242	2.33	-2.06	-6.1	-11.82
243	8.725753	15.18243	15.87361	243	2.49	-1.92	-6.04	-11.82
244	8.809365	15.28378	16.33829	244	2.6	-1.78	-5.99	-11.81
245	8.959866	15.35135	16.71004	245	2.66	-1.64	-5.96	-11.79
246	9.110368	15.41892	16.95167	246	2.71	-1.5	-5.93	-11.78
247	9.19398	15.50338	17.28625	247	2.76	-1.38	-5.91	-11.75
248	9.244147	15.50338	17.50929	248	2.79	-1.26	-5.89	-11.76
249	9.26087	15.52027	17.65799	249	2.82	-1.15	-5.87	-11.77
250	9.327759	15.53716	17.7881	250	2.86	-1.03	-5.85	-11.78

251	9.344482	15.50338	17.9368	251	2.91	-0.92	-5.83	-11.79
252	9.344482	15.53716	18.01115	252	2.95	-0.81	-5.81	-11.78
253	9.327759	15.50338	18.06691	253	3	-0.71	-5.79	-11.76
254	9.361204	15.52027	18.19703	254	3.05	-0.61	-5.76	-11.73
255	9.344482	15.50338	18.21561	255	3.09	-0.52	-5.75	-11.71
256	9.344482	15.4527	18.30855	256	3.16	-0.42	-5.71	-11.68
257	9.377926	15.43581	18.42007	257	3.2	-0.33	-5.7	-11.67
258	9.377926	15.43581	18.55019	258	3.26	-0.24	-5.67	-11.64
259	9.394649	15.40203	18.58736	259	3.31	-0.16	-5.65	-11.62
260	9.428094	15.43581	18.56877	260	3.37	-0.07	-5.63	-11.6
261	9.478261	15.46959	18.6803	261	3.43	0.01	-5.61	-11.59
262	9.478261	15.4527	18.77323	262	3.49	0.1	-5.58	-11.57
263	9.461538	15.48649	18.86617	263	3.55	0.17	-5.57	-11.55
264	9.461538	15.52027	18.92193	264	3.61	0.24	-5.55	-11.53
265	9.494983	15.52027	18.99628	265	3.67	0.31	-5.54	-11.52
266	9.478261	15.50338	18.9777	266	3.73	0.37	-5.52	-11.52
267	9.461538	15.48649	19.08922	267	3.8	0.44	-5.51	-11.5
268	9.444816	15.46959	19.12639	268	3.87	0.5	-5.49	-11.49
269	9.428094	15.50338	19.20074	269	3.94	0.56	-5.48	-11.48
270	9.67893	15.97635	19.66543	270	3.51	0.47	-5.53	-11.53
271	10.41472	16.95608	20.55762	271	1.94	-0.12	-5.89	-11.59
272	11.31773	17.78378	21.35688	272	1.83	-0.73	-6.13	-11.62
273	12.03679	18.22297	21.82156	273	1.68	-1.28	-6.27	-11.66
274	12.65552	18.47635	22.02602	274	1.66	-1.78	-6.36	-11.69
275	13.17391	18.54392	22.10037	275	1.41	-2.27	-6.44	-11.74
276	13.54181	18.61149	22.0632	276	1.26	-2.67	-6.48	-11.77
277	13.72575	18.59459	22.02602	277	1.3	-2.98	-6.5	-11.78
278	13.84281	18.40878	21.74721	278	1.46	-3.2	-6.51	-11.78
279	13.89298	18.15541	21.3197	279	1.64	-3.34	-6.53	-11.78
280	13.72575	17.78378	20.70632	280	1.83	-3.39	-6.51	-11.77
281	13.34114	17.19257	19.79554	281	2.07	-3.38	-6.47	-11.77
282	12.80602	16.39865	18.71747	282	2.35	-3.34	-6.42	-11.75
283	12.08696	15.52027	17.47212	283	2.63	-3.26	-6.36	-11.75
284	11.25084	14.59122	16.11524	284	2.83	-3.16	-6.29	-11.76
285	10.43144	13.89865	14.81413	285	2.68	-3.03	-6.22	-11.8
286	9.779264	13.62838	13.90335	286	3.23	-2.88	-6.16	-11.81
287	9.377926	13.67905	13.58736	287	3.38	-2.72	-6.12	-11.82
288	9.060201	13.98311	13.81041	288	2.94	-2.57	-6.11	-11.82
289	8.842809	14.32095	14.23792	289	2.57	-2.41	-6.11	-11.8
290	8.742475	14.625	14.75836	290	2.44	-2.26	-6.12	-11.81
291	8.742475	14.97973	15.33457	291	2.49	-2.1	-6.08	-11.8
292	8.859532	15.18243	15.87361	292	2.59	-1.94	-6.01	-11.76
293	8.993311	15.31757	16.35688	293	2.7	-1.79	-5.94	-11.75
294	9.160535	15.4527	16.74721	294	2.77	-1.65	-5.9	-11.76
295	9.311037	15.50338	17.08178	295	2.83	-1.51	-5.87	-11.75

296	9.394649	15.55405	17.34201	296	2.85	-1.38	-5.85	-11.74
297	9.411371	15.65541	17.56506	297	2.88	-1.26	-5.83	-11.72
298	9.428094	15.63851	17.7881	298	2.92	-1.14	-5.81	-11.7
299	9.377926	15.57095	17.95539	299	2.95	-1.02	-5.78	-11.68
300	9.428094	15.57095	18.06691	300	2.99	-0.91	-5.76	-11.65
301	9.494983	15.63851	18.17844	301	3.02	-0.8	-5.74	-11.64
302	9.528428	15.58784	18.27138	302	3.07	-0.69	-5.72	-11.65
303	9.494983	15.53716	18.36431	303	3.1	-0.59	-5.7	-11.67
304	9.478261	15.52027	18.42007	304	3.15	-0.49	-5.67	-11.65
305	9.511706	15.57095	18.5316	305	3.2	-0.4	-5.65	-11.62
306	9.511706	15.60473	18.56877	306	3.25	-0.31	-5.63	-11.63
307	9.494983	15.58784	18.60595	307	3.29	-0.22	-5.61	-11.64
308	9.494983	15.52027	18.64312	308	3.34	-0.13	-5.6	-11.65
309	9.478261	15.48649	18.71747	309	3.39	-0.05	-5.58	-11.63
310	9.478261	15.52027	18.77323	310	3.44	0.03	-5.56	-11.6
311	9.528428	15.48649	18.88476	311	3.49	0.1	-5.54	-11.61
312	9.561873	15.53716	18.95911	312	3.54	0.18	-5.52	-11.6
313	9.561873	15.58784	18.99628	313	3.59	0.25	-5.51	-11.57
314	9.578595	15.58784	19.05204	314	3.65	0.33	-5.49	-11.57
315	9.595318	15.62162	19.12639	315	3.69	0.39	-5.47	-11.56
316	9.561873	15.62162	19.16357	316	3.76	0.46	-5.45	-11.54
317	9.578595	15.62162	19.20074	317	3.82	0.53	-5.44	-11.56
318	9.662207	15.82432	19.4052	318	3.88	0.58	-5.43	-11.57
319	10.0301	16.58446	20.18587	319	2.59	0.2	-5.67	-11.63
320	10.78261	17.46284	21.13383	320	2.07	-0.39	-5.99	-11.67
321	11.73579	17.96959	21.67286	321	1.89	-0.92	-6.14	-11.69
322	12.52174	18.30743	21.95167	322	1.97	-1.42	-6.25	-11.71
323	13.0903	18.51014	22.08178	323	1.97	-1.91	-6.32	-11.72
324	13.49164	18.5777	22.08178	324	1.91	-2.33	-6.38	-11.74
325	13.69231	18.54392	22.00743	325	1.93	-2.65	-6.42	-11.75
326	13.77592	18.375	21.78439	326	2	-2.88	-6.43	-11.75
327	13.74247	18.10473	21.4684	327	2.16	-3	-6.44	-11.74
328	13.57525	17.78378	20.91078	328	2.3	-3.06	-6.42	-11.73
329	13.22408	17.26014	20.03717	329	2.55	-3.07	-6.38	-11.73
330	12.73913	16.43243	18.88476	330	2.83	-3.05	-6.33	-11.74
331	12.10368	15.53716	17.62082	331	3.02	-3.01	-6.28	-11.75
332	11.31773	14.64189	16.30112	332	3.13	-2.92	-6.21	-11.74
333	10.54849	13.89865	15.05576	333	3.22	-2.82	-6.15	-11.78
334	9.879599	13.62838	14.12639	334	3.67	-2.69	-6.09	-11.8
335	9.394649	13.71284	13.75465	335	3.6	-2.54	-6.06	-11.79
336	9.12709	14	14.05204	336	3.11	-2.4	-6.07	-11.77
337	8.993311	14.33784	14.5539	337	2.71	-2.24	-6.06	-11.76
338	8.943144	14.69257	15.13011	338	2.62	-2.09	-6.01	-11.74
339	9.010033	15.0473	15.74349	339	2.68	-1.93	-5.93	-11.72
340	9.12709	15.25	16.30112	340	2.76	-1.79	-5.87	-11.7

341	9.244147	15.35135	16.72862	341	2.82	-1.65	-5.84	-11.69
342	9.344482	15.4527	17.13755	342	2.87	-1.52	-5.81	-11.67
343	9.327759	15.55405	17.47212	343	2.92	-1.39	-5.79	-11.66
344	9.394649	15.57095	17.63941	344	2.94	-1.27	-5.77	-11.66
345	9.478261	15.53716	17.75093	345	2.96	-1.14	-5.74	-11.65
346	9.444816	15.62162	17.95539	346	2.99	-1.02	-5.71	-11.63
347	9.478261	15.63851	18.10409	347	3.02	-0.9	-5.68	-11.62
348	9.511706	15.6723	18.21561	348	3.05	-0.8	-5.66	-11.63
349	9.528428	15.65541	18.36431	349	3.09	-0.69	-5.64	-11.63
350	9.561873	15.62162	18.42007	350	3.13	-0.58	-5.62	-11.62
351	9.545151	15.60473	18.51301	351	3.17	-0.48	-5.6	-11.6
352	9.511706	15.52027	18.58736	352	3.21	-0.39	-5.58	-11.6
353	9.578595	15.53716	18.64312	353	3.25	-0.3	-5.57	-11.61
354	9.595318	15.53716	18.69888	354	3.3	-0.21	-5.55	-11.58
355	9.545151	15.57095	18.6803	355	3.34	-0.13	-5.54	-11.6
356	9.545151	15.53716	18.71747	356	3.39	-0.05	-5.52	-11.62
357	9.561873	15.52027	18.81041	357	3.44	0.03	-5.51	-11.63
358	9.528428	15.52027	18.90335	358	3.49	0.11	-5.49	-11.63
359	9.561873	15.53716	18.90335	359	3.55	0.19	-5.47	-11.6
360	9.595318	15.50338	18.99628	360	3.6	0.27	-5.45	-11.61
361	9.578595	15.53716	19.07063	361	3.67	0.34	-5.44	-11.61
362	9.578595	15.55405	19.14498	362	3.79	0.41	-5.42	-11.59
363	9.578595	15.58784	19.23792	363	3.87	0.48	-5.41	-11.6
364	9.595318	15.62162	19.33086	364	3.93	0.54	-5.39	-11.59
365	9.561873	15.62162	19.38662	365	4	0.61	-5.38	-11.6
366	9.478261	15.63851	19.47955	366	4.2	0.67	-5.36	-11.61

Adsorp_exp_11

Experiment type: Adsorption controlled experiment. There was not regolith in this experiment, just an empty petri dish. The humidity buffer was LiCl which has a RH of 11.31 at 0 degrees Celsius. Temperature around the sample was as close to 0 degrees Celsius as possible, cooled with the chiller system.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= humidity buffer 3= atmosphere 4= sample

Mass		RH				T				
Min.	Mass	Min.	Ch02	Ch03	Ch04	Min.	Ch01	Ch02	Ch03	Ch04

0	0.45	0	14.38462	23.22973	1.003717	0	0.62	-0.63	-3.87	-12.01
2	0.22	1	14.75251	28.77027	0.297398	1	-3.67	-2.25	-4.74	-12.23
4	0.16	2	15.32107	29.69932	1.115242	2	-1.65	-0.65	-4.83	-12.31
6	0.19	3	15.95652	28.36486	1.040892	3	-0.53	-0.04	-4.73	-12.32
8	-0.54	4	16.42475	25.91554	0.074349	4	0.18	0.17	-4.68	-12.37
10	0.16	5	16.62542	23.31419	2.156134	5	1.57	0.43	-4.58	-12.37
12	0.16	6	16.72575	21.03378	5.241636	6	2.44	0.56	-4.47	-12.35
14	0.16	7	16.0903	13.12838	7.342007	7	1.72	0.38	-4.61	-12.42
16	0.15	8	12.52843	1.405405	5.855019	8	0.31	-0.34	-5.46	-12.46
18	0.16	9	7.160535	5.807432	1.914498	9	-0.55	-1.05	-6.03	-12.49
20	0.17	10	2.762542	8.763514	1.747212	10	-1.87	-1.68	-6.35	-12.52
22	0.18	11	0.331104	9.97973	4.29368	11	-2.1	-2.23	-6.52	-12.55
24	0.19	12	2.371237	11.11149	6.189591	12	-2.09	-2.73	-6.64	-12.56
26	0.2	13	3.842809	12.07432	7.583643	13	-2.1	-3.14	-6.72	-12.57
28	0.2	14	4.879599	12.66554	8.624535	14	-2.07	-3.46	-6.74	-12.56
30	0.21	15	5.51505	12.88514	9.423792	15	-1.98	-3.69	-6.73	-12.54
32	0.21	16	5.899666	12.80068	9.832714	16	-1.9	-3.86	-6.69	-12.52
34	0.21	17	6	12.34459	9.925651	17	-1.79	-3.97	-6.63	-12.5
36	0.21	18	5.832776	11.46622	9.553903	18	-1.64	-4.01	-6.54	-12.49
38	0.21	19	5.431438	10.25	9.033457	19	-1.5	-4.02	-6.44	-12.49
40	0.21	20	4.779264	8.898649	8.104089	20	-1.32	-3.99	-6.34	-12.48
42	0.21	21	3.909699	7.361486	6.765799	21	-1.15	-3.92	-6.22	-12.45
44	0.21	22	2.839465	5.773649	5.130112	22	-1.07	-3.82	-6.11	-12.42
46	0.21	23	1.602007	4.35473	3.401487	23	-0.94	-3.71	-6.01	-12.39
48	0.21	24	0.331104	3.003378	1.672862	24	-0.79	-3.59	-5.93	-12.35
50	0.21	25	0.822742	1.601351	0.204461	25	-0.63	-3.45	-5.83	-12.32
52	0.21	26	2.043478	0.351351	2.026022	26	-0.45	-3.3	-5.74	-12.29
54	0.21	27	3.230769	0.628378	3.66171	27	-0.26	-3.14	-5.65	-12.26
56	0.21	28	4.267559	1.27027	4.962825	28	-0.02	-2.97	-5.56	-12.24
58	0.21	29	5.304348	1.35473	5.947955	29	0.26	-2.79	-5.49	-12.22
60	-0.24	30	5.989967	0.915541	6.524164	30	0.53	-2.62	-5.44	-12.21
62	-0.14	31	6.307692	0.206081	6.375465	31	0.73	-2.44	-5.41	-12.2
64	0.13	32	6.458194	0.60473	5.63197	32	0.91	-2.27	-5.4	-12.18
66	0.14	33	6.341137	1.314189	4.628253	33	1.08	-2.09	-5.4	-12.16
68	0.13	34	5.989967	2.125	3.568773	34	1.22	-1.94	-5.43	-12.14
70	0.14	35	5.337793	3.138514	2.490706	35	1.36	-1.78	-5.46	-12.1
72	0.15	36	4.384615	4.101351	1.412639	36	1.49	-1.63	-5.48	-12.09
74	0.16	37	3.364548	5.131757	0.334572	37	1.63	-1.48	-5.5	-12.11
76	0.17	38	2.411371	6.14527	0.873606	38	1.75	-1.35	-5.52	-12.13
78	0.17	39	1.508361	6.972973	2.04461	39	1.86	-1.22	-5.53	-12.14
80	0.17	40	0.705686	7.665541	2.992565	40	1.96	-1.09	-5.53	-12.14
82	0.17	41	0.003344	8.307432	3.810409	41	2.04	-0.98	-5.54	-12.15
84	0.17	42	0.648829	8.915541	4.553903	42	2.11	-0.87	-5.55	-12.15
86	0.17	43	1.200669	9.320946	5.204461	43	2.18	-0.76	-5.55	-12.15
88	0.18	44	1.702341	9.675676	5.910781	44	2.25	-0.65	-5.54	-12.15

90	0.18	45	2.170569	10.09797	6.6171	45	2.32	-0.55	-5.53	-12.14
92	0.18	46	2.538462	10.43581	7.156134	46	2.39	-0.45	-5.52	-12.13
94	0.18	47	2.906355	10.68919	7.620818	47	2.44	-0.36	-5.51	-12.13
96	0.18	48	3.29097	10.95946	8.066914	48	2.5	-0.27	-5.51	-12.13
98	0.18	49	3.625418	11.22973	8.494424	49	2.55	-0.18	-5.49	-12.13
100	0.19	50	3.943144	11.41554	8.94052	50	2.61	-0.09	-5.48	-12.12
102	0.19	51	4.244147	11.56757	9.386617	51	2.66	-0.01	-5.46	-12.1
104	0.19	52	4.478261	11.73649	9.72119	52	2.7	0.07	-5.45	-12.09
106	0.19	53	4.662207	11.88851	10.03717	53	2.75	0.14	-5.44	-12.09
108	0.19	54	4.846154	12.09122	10.33457	54	2.79	0.22	-5.43	-12.08
110	0.19	55	5.013378	12.22635	10.57621	55	2.83	0.29	-5.41	-12.08
112	0.2	56	5.197324	12.3277	10.83643	56	2.86	0.35	-5.41	-12.08
114	1.92	57	5.431438	12.39527	11.09665	57	2.9	0.42	-5.39	-12.06
116	4.08	58	5.598662	12.61486	11.28253	58	2.94	0.48	-5.38	-12.04
118	7.12	59	5.749164	12.73311	11.52416	59	2.69	0.54	-5.36	-11.99
120	10.9	60	6.317726	13.67905	12.15613	60	-0.49	0.13	-5.55	-12.03
122	8.81	61	7.555184	15.31757	13.17844	61	-1.25	-0.38	-5.9	-12.08
124	0.18	62	8.859532	16.46622	14.10781	62	-1.45	-0.87	-6.14	-12.12
126	0.05	63	9.946488	17.125	14.75836	63	-1.69	-1.36	-6.3	-12.14
128	0.09	64	10.81605	17.56419	15.31599	64	-1.85	-1.8	-6.41	-12.14
130	0.1	65	11.48495	17.88514	15.74349	65	-1.94	-2.17	-6.47	-12.15
132	0.11	66	12.00334	18.00338	16.0223	66	-2.04	-2.49	-6.52	-12.17
134	0.13	67	12.32107	17.9527	16.28253	67	-2.07	-2.74	-6.54	-12.15
136	0.14	68	12.48829	17.81757	16.43123	68	-1.98	-2.95	-6.55	-12.14
138	0.15	69	12.50502	17.5473	16.37546	69	-1.86	-3.1	-6.54	-12.11
140	0.15	70	12.38796	17.04054	16.20818	70	-1.72	-3.19	-6.5	-12.11
142	0.15	71	12.13712	16.39865	15.87361	71	-1.57	-3.23	-6.46	-12.11
144	0.16	72	11.75251	15.57095	15.37175	72	-1.45	-3.23	-6.4	-12.12
146	0.16	73	11.21739	14.52365	14.81413	73	-1.22	-3.19	-6.33	-12.15
148	0.16	74	10.54849	13.51014	14.07063	74	-1.12	-3.15	-6.27	-12.18
150	0.17	75	9.795987	12.44595	13.21561	75	-0.68	-3.06	-6.18	-12.19
152	0.17	76	8.993311	11.58446	12.30483	76	-0.66	-2.93	-6.09	-12.19
154	0.17	77	8.374582	11.28041	11.59851	77	-0.64	-2.79	-6.03	-12.16
156	0.17	78	8.023411	11.39865	11.26394	78	-0.5	-2.64	-5.98	-12.14
158	0.18	79	7.722408	11.73649	11.24535	79	-0.44	-2.49	-5.94	-12.11
160	0.18	80	7.571906	12.05743	11.3197	80	-0.36	-2.35	-5.91	-12.1
162	0.18	81	7.588629	12.34459	11.48699	81	-0.27	-2.21	-5.9	-12.09
164	0.18	82	7.688963	12.73311	11.71004	82	-0.13	-2.07	-5.89	-12.08
166	0.18	83	7.87291	13.08784	11.78439	83	0.01	-1.93	-5.86	-12.04
168	0.19	84	8.073579	13.39189	11.97026	84	0.14	-1.79	-5.84	-12.03
170	0.19	85	8.257525	13.61149	12.19331	85	0.26	-1.67	-5.83	-12.02
172	0.19	86	8.424749	13.71284	12.34201	86	0.4	-1.54	-5.8	-11.99
174	1.09	87	8.541806	13.84797	12.45353	87	0.52	-1.42	-5.77	-11.95
176	0.11	88	8.625418	13.93243	12.60223	88	0.64	-1.3	-5.75	-11.94
178	0.08	89	8.725753	14.05068	12.76952	89	0.74	-1.19	-5.74	-11.91

180	0.12	90	8.759197	14.11824	12.88104	90	0.84	-1.09	-5.72	-11.92
182	0.13	91	8.876254	14.2027	13.01115	91	0.94	-0.98	-5.71	-11.94
184	0.13	92	8.959866	14.23649	13.15985	92	1.02	-0.88	-5.69	-11.96
186	0.14	93	9.026756	14.30405	13.28996	93	1.11	-0.78	-5.67	-11.97
188	0.15	94	9.060201	14.37162	13.36431	94	1.21	-0.67	-5.64	-11.96
190	0.16	95	9.110368	14.37162	13.45725	95	1.31	-0.57	-5.61	-11.93
192	0.16	96	9.143813	14.38851	13.55019	96	1.4	-0.47	-5.59	-11.89
194	0.16	97	9.110368	14.4223	13.6803	97	1.49	-0.38	-5.57	-11.87
196	0.16	98	9.12709	14.43919	13.88476	98	1.59	-0.29	-5.54	-11.84
198	0.16	99	9.12709	14.47297	13.95911	99	1.68	-0.2	-5.53	-11.84
200	0.16	100	9.143813	14.48986	14.03346	100	1.77	-0.12	-5.51	-11.85
202	0.17	101	9.110368	14.50676	14.08922	101	1.86	-0.04	-5.5	-11.87
204	0.17	102	9.043478	14.59122	14.12639	102	1.95	0.05	-5.47	-11.86
206	0.17	103	9.076923	14.55743	14.14498	103	2.04	0.13	-5.45	-11.86
208	0.17	104	9.076923	14.59122	14.29368	104	2.12	0.21	-5.44	-11.85
210	0.18	105	9.060201	14.55743	14.38662	105	2.21	0.29	-5.42	-11.83
212	0.18	106	9.093645	14.59122	14.46097	106	2.28	0.35	-5.4	-11.83
214	0.18	107	9.076923	14.60811	14.5539	107	2.36	0.42	-5.39	-11.81
216	0.18	108	9.026756	14.59122	14.66543	108	2.44	0.49	-5.37	-11.8
218	0.18	109	8.993311	14.59122	14.75836	109	2.51	0.56	-5.36	-11.79
220	0.65	110	8.976589	14.625	14.73978	110	2.58	0.63	-5.34	-11.79
222	0.17	111	8.976589	14.60811	14.83271	111	2.65	0.69	-5.33	-11.79
224	0.08	112	8.993311	14.67568	14.94424	112	2.71	0.75	-5.31	-11.78
226	0.11	113	8.976589	14.77703	15.09294	113	2.25	0.77	-5.3	-11.78
228	0.12	114	9.26087	15.38514	15.48327	114	-1.34	0.21	-5.57	-11.84
230	0.13	115	10.13043	16.56757	16.07807	115	-2.04	-0.55	-6.14	-11.91
232	0.14	116	11.18395	17.53041	16.65428	116	-2.46	-1.27	-6.59	-11.99
234	0.15	117	12.03679	18.08784	17.19331	117	-2.78	-2.05	-7.01	-12.03
236	0.15	118	12.70569	18.42568	17.62082	118	-3.17	-2.82	-7.42	-12.05
238	0.15	119	13.2408	18.5777	18.04833	119	-3.91	-3.29	-7.65	-12.08
240	0.16	120	13.64214	18.59459	18.40149	120	-4.19	-3.98	-7.77	-12.11
242	0.16	121	13.89298	18.62838	18.60595	121	-4.8	-4.16	-7.83	-12.11
244	0.16	122	14.07692	18.71284	18.69888	122	-5.04	-4.44	-7.73	-12.14
246	0.16	123	14.31104	18.71284	18.77323	123	-5.16	-4.65	-7.67	-12.15
248	0.16	124	14.51171	18.74662	18.86617	124	-5.13	-4.87	-7.64	-12.14
250	0.17	125	14.61204	18.72973	18.81041	125	-5.04	-5.07	-7.61	-12.15
252	0.17	126	14.74582	18.69595	18.79182	126	-4.94	-5.23	-7.58	-12.13
254	0.17	127	14.81271	18.61149	18.88476	127	-4.75	-5.35	-7.52	-12.15
256	0.17	128	14.82943	18.47635	18.92193	128	-4.49	-5.42	-7.45	-12.17
258	0.18	129	14.79599	18.30743	18.81041	129	-4.14	-5.44	-7.37	-12.18
260	0.18	130	14.62876	18.02027	18.62454	130	-3.79	-5.41	-7.27	-12.15
262	0.18	131	14.37793	17.5473	18.34572	131	-3.52	-5.33	-7.18	-12.15
264	0.18	132	13.95987	16.87162	17.86245	132	-3.16	-5.22	-7.07	-12.13
266	0.18	133	13.44147	15.90878	17.11896	133	-2.72	-5.07	-6.96	-12.11
268	4.04	134	12.7893	14.87838	16.28253	134	-2.41	-4.9	-6.84	-12.09

270	3.1	135	11.91973	13.88176	15.27881	135	-1.95	-4.72	-6.7	-12.07
272	0.69	136	10.94983	12.83446	14.16357	136	-1.62	-4.52	-6.58	-12.06
274	0.09	137	10.01338	12.05743	13.17844	137	-0.97	-4.28	-6.46	-12.07
276	0.1	138	9.294314	11.7027	12.32342	138	-1.05	-4.04	-6.37	-12.07
278	0.11	139	8.859532	11.77027	11.84015	139	-0.86	-3.8	-6.29	-12.04
280	0.11	140	8.608696	11.97297	11.87732	140	-0.74	-3.57	-6.23	-12.02
282	0.12	141	8.408027	12.27703	11.98885	141	-0.64	-3.35	-6.18	-12
284	0.13	142	8.274247	12.53041	12.0632	142	-0.57	-3.15	-6.14	-12.02
286	0.15	143	8.22408	12.69932	12.15613	143	-0.48	-2.94	-6.1	-12.01
288	0.15	144	8.240803	12.96959	12.41636	144	-0.38	-2.74	-6.06	-12
290	0.15	145	8.29097	13.27365	12.62082	145	-0.23	-2.56	-6.02	-11.96
292	0.15	146	8.424749	13.59459	12.75093	146	-0.1	-2.39	-6	-11.97
294	0.16	147	8.591973	13.91554	12.95539	147	0.04	-2.21	-5.96	-11.98
296	0.16	148	8.725753	14.15203	13.2342	148	0.17	-2.05	-5.93	-11.99
298	0.16	149	8.842809	14.30405	13.51301	149	0.29	-1.9	-5.91	-11.99
300	0.16	150	8.909699	14.38851	13.6803	150	0.41	-1.75	-5.88	-11.96
302	0.17	151	8.993311	14.45608	13.829	151	0.52	-1.61	-5.86	-11.95
304	0.17	152	9.12709	14.55743	14.03346	152	0.63	-1.48	-5.84	-11.94
306	0.17	153	9.210702	14.55743	14.10781	153	0.74	-1.35	-5.81	-11.92
308	0.17	154	9.244147	14.67568	14.23792	154	0.84	-1.22	-5.79	-11.9
310	0.18	155	9.311037	14.70946	14.34944	155	0.93	-1.11	-5.77	-11.89
312	0.18	156	9.311037	14.70946	14.47955	156	1.02	-1	-5.75	-11.89
314	0.18	157	9.377926	14.72635	14.60967	157	1.11	-0.89	-5.74	-11.88
316	0.18	158	9.361204	14.81081	14.59108	158	1.21	-0.78	-5.71	-11.87
318	1.79	159	9.344482	14.84459	14.7026	159	1.3	-0.68	-5.69	-11.86
320	0.62	160	9.411371	14.87838	14.86989	160	1.39	-0.57	-5.66	-11.84
322	0.05	161	9.411371	14.87838	14.96283	161	1.47	-0.47	-5.64	-11.84
324	0.12	162	9.361204	14.92905	15	162	1.57	-0.37	-5.62	-11.83
326	0.12	163	9.377926	14.92905	15.07435	163	1.65	-0.28	-5.6	-11.84
328	0.12	164	9.428094	14.91216	15.13011	164	1.74	-0.19	-5.58	-11.82
330	0.13	165	9.478261	14.96284	15.22305	165	1.83	-0.09	-5.55	-11.83
332	0.14	166	9.511706	15.01351	15.20446	166	1.92	0	-5.53	-11.84
334	0.15	167	9.461538	15.06419	15.33457	167	2	0.08	-5.51	-11.83
336	0.15	168	9.461538	15.06419	15.37175	168	2.08	0.16	-5.49	-11.82
338	0.15	169	9.411371	15.06419	15.40892	169	2.16	0.24	-5.47	-11.82
340	0.16	170	9.394649	15.08108	15.48327	170	2.23	0.32	-5.45	-11.81
342	0.16	171	9.394649	15.03041	15.53903	171	2.31	0.39	-5.44	-11.8
344	0.16	172	9.377926	15.08108	15.5948	172	2.39	0.46	-5.42	-11.78
346	0.16	173	9.377926	15.06419	15.5948	173	2.44	0.53	-5.4	-11.79
348	0.17	174	9.511706	15.35135	15.81784	174	0.62	0.36	-5.47	-11.83
350	0.17	175	10.01338	16.24662	16.69145	175	-1.05	-0.12	-5.77	-11.88
352	0.17	176	10.93311	17.24324	17.82528	176	-1.75	-0.53	-6.02	-11.9
354	0.17	177	11.9699	17.81757	18.58736	177	-2.58	-0.89	-6.21	-11.92
356	0.17	178	12.83946	18.18919	19.03346	178	-3.01	-1.26	-6.36	-11.92
358	0.18	179	13.3913	18.39189	19.42379	179	-3.23	-1.59	-6.47	-11.97

360	0.18	180	13.74247	18.49324	19.66543	180	-3.22	-1.87	-6.53	-12.01
362	0.18	181	13.99331	18.40878	19.75836	181	-3.11	-2.11	-6.56	-12.06
364	0.16	182	14.11037	18.22297	19.7026	182	-2.91	-2.3	-6.56	-12.09
366	0.1	183	14.0602	17.9527	19.59108	183	-2.72	-2.42	-6.53	-12.09
368	0.12	184	13.9097	17.56419	19.27509	184	-2.46	-2.51	-6.5	-12.1
370	0.12	185	13.64214	16.93919	18.73606	185	-2.14	-2.55	-6.43	-12.07
372	0.12	186	13.19064	16.11149	18.02974	186	-1.85	-2.56	-6.36	-12.04
374	0.13	187	12.60535	15.23311	17.08178	187	-1.31	-2.54	-6.27	-12.02
376	0.14	188	11.93645	14.33784	16.0223	188	-0.87	-2.49	-6.17	-12.01
378	0.15	189	11.26756	13.64527	14.96283	189	-0.62	-2.41	-6.09	-12.01
380	0.15	190	10.74916	13.32432	14.03346	190	-0.56	-2.31	-6.02	-12
382	0.15	191	10.34783	13.34122	13.58736	191	-0.31	-2.2	-5.97	-11.98
384	0.16	192	10.09699	13.54392	13.58736	192	-0.13	-2.08	-5.94	-11.95
386	0.16	193	9.979933	13.86486	13.6803	193	-0.05	-1.97	-5.92	-11.93
388	0.16	194	10.01338	14.13514	13.86617	194	0.01	-1.85	-5.9	-11.91
390	0.16	195	10.08027	14.33784	14.10781	195	0.08	-1.74	-5.87	-11.91
392	0.17	196	10.11371	14.54054	14.34944	196	0.13	-1.61	-5.84	-11.91
394	0.17	197	10.13043	14.74324	14.57249	197	0.18	-1.5	-5.81	-11.91
396	0.17	198	10.16388	14.86149	14.81413	198	0.23	-1.39	-5.79	-11.89
		199	10.19732	14.94595	14.96283	199	0.31	-1.27	-5.75	-11.87
		200	10.21405	15.08108	15.13011	200	0.39	-1.16	-5.73	-11.88
		201	10.21405	15.19932	15.2974	201	0.49	-1.06	-5.71	-11.88
		202	10.24749	15.23311	15.4461	202	0.58	-0.95	-5.68	-11.86
		203	10.19732	15.16554	15.52045	203	0.67	-0.86	-5.67	-11.87
		204	10.24749	15.21622	15.55762	204	0.77	-0.76	-5.64	-11.9
		205	10.26421	15.19932	15.57621	205	0.86	-0.66	-5.62	-11.93
		206	10.31438	15.30068	15.66914	206	0.95	-0.57	-5.61	-11.95
		207	10.34783	15.26689	15.68773	207	1.04	-0.48	-5.58	-11.97
		208	10.34783	15.26689	15.74349	208	1.12	-0.39	-5.56	-11.96
		209	10.29766	15.25	15.74349	209	1.21	-0.3	-5.54	-11.94
		210	10.24749	15.28378	15.74349	210	1.29	-0.22	-5.52	-11.9
		211	10.24749	15.23311	15.79926	211	1.38	-0.13	-5.5	-11.87
		212	10.19732	15.26689	15.92937	212	1.46	-0.05	-5.49	-11.85
		213	10.1806	15.25	15.96654	213	1.54	0.03	-5.47	-11.85
		214	10.1806	15.26689	15.91078	214	1.62	0.11	-5.46	-11.82
		215	10.16388	15.26689	15.89219	215	1.69	0.19	-5.44	-11.8
		216	10.09699	15.23311	15.92937	216	1.77	0.27	-5.41	-11.78
		217	10.09699	15.26689	15.92937	217	1.84	0.33	-5.4	-11.78
		218	10.11371	15.26689	15.89219	218	1.91	0.4	-5.39	-11.81
		219	10.11371	15.30068	15.96654	219	1.98	0.47	-5.37	-11.84
		220	10.13043	15.30068	15.96654	220	1.91	0.52	-5.35	-11.86
		221	10.29766	15.68919	16.35688	221	-0.33	0.22	-5.49	-11.92
		222	10.94983	16.66892	17.49071	222	-1.38	-0.25	-5.8	-11.97
		223	11.98662	17.59797	18.56877	223	-2.28	-0.59	-6.03	-12.01
		224	12.88963	18.12162	19.29368	224	-3.02	-0.96	-6.23	-12.05

225	13.50836	18.40878	19.83271	225	-3.55	-1.38	-6.38	-12.07
226	13.92642	18.52703	20.1487	226	-3.71	-1.94	-6.48	-12.07
227	14.16054	18.52703	20.27881	227	-3.72	-2.23	-6.54	-12.06
228	14.26087	18.40878	20.2974	228	-3.64	-2.36	-6.55	-12.05
229	14.24415	18.20608	20.26022	229	-3.37	-2.31	-6.53	-12.04
230	14.14381	17.93581	20.07435	230	-2.92	-2.35	-6.49	-12
231	13.9097	17.49662	19.60967	231	-2.57	-2.42	-6.42	-11.98
232	13.55853	16.83784	18.92193	232	-2.33	-2.44	-6.35	-11.99
233	13.05686	16.06081	18.14126	233	-2.05	-2.43	-6.27	-11.98
234	12.52174	15.19932	17.19331	234	-1.24	-2.41	-6.18	-11.94
235	11.93645	14.43919	16.07807	235	-0.95	-2.35	-6.09	-11.96
236	11.25084	13.88176	15.03717	236	-0.76	-2.26	-6	-11.97
237	10.73244	13.66216	14.36803	237	-0.61	-2.16	-5.95	-11.99
238	10.41472	13.78041	14.10781	238	-0.29	-2.04	-5.91	-11.99
239	10.26421	14.01689	14.10781	239	-0.08	-1.92	-5.87	-11.94
240	10.23077	14.27027	14.14498	240	0.04	-1.81	-5.84	-11.96
241	10.29766	14.48986	14.34944	241	0.11	-1.7	-5.83	-11.98
242	10.36455	14.69257	14.60967	242	0.19	-1.58	-5.8	-11.98
243	10.39799	14.91216	14.92565	243	0.26	-1.47	-5.77	-11.97
244	10.48161	15.03041	15.20446	244	0.31	-1.35	-5.75	-11.95
245	10.44816	15.13176	15.31599	245	0.35	-1.25	-5.72	-11.93
246	10.44816	15.18243	15.4461	246	0.4	-1.14	-5.7	-11.91
247	10.39799	15.19932	15.63197	247	0.46	-1.03	-5.68	-11.89
248	10.38127	15.21622	15.74349	248	0.53	-0.93	-5.66	-11.89
249	10.38127	15.28378	15.78067	249	0.6	-0.83	-5.63	-11.87
250	10.39799	15.30068	15.87361	250	0.69	-0.73	-5.61	-11.84
251	10.41472	15.36824	16.00372	251	0.79	-0.63	-5.58	-11.82
252	10.39799	15.36824	15.91078	252	0.89	-0.53	-5.56	-11.81
253	10.44816	15.28378	15.98513	253	0.98	-0.44	-5.54	-11.83
254	10.48161	15.30068	16.05948	254	1.07	-0.35	-5.52	-11.86
255	10.46488	15.33446	16.09665	255	1.16	-0.26	-5.5	-11.89
256	10.48161	15.36824	16.09665	256	1.24	-0.17	-5.48	-11.92
257	10.43144	15.40203	16.05948	257	1.32	-0.09	-5.46	-11.94
258	10.39799	15.35135	16.04089	258	1.4	0	-5.44	-11.95
259	10.44816	15.35135	16.0223	259	1.48	0.07	-5.43	-11.96
260	10.43144	15.36824	16.05948	260	1.56	0.16	-5.41	-11.96
261	10.43144	15.33446	16.15242	261	1.63	0.23	-5.39	-11.93
262	10.36455	15.26689	16.15242	262	1.71	0.31	-5.37	-11.89
263	10.38127	15.28378	16.09665	263	1.78	0.38	-5.35	-11.87
264	10.39799	15.26689	16.05948	264	1.86	0.46	-5.33	-11.86
265	10.34783	15.30068	16.15242	265	1.93	0.52	-5.32	-11.86
266	10.3311	15.28378	16.15242	266	1.99	0.58	-5.31	-11.86
267	10.28094	15.40203	16.22677	267	1.32	0.57	-5.31	-11.84
268	10.64883	16.21284	16.9145	268	-1.54	0	-5.64	-11.89
269	11.51839	17.31081	18.12268	269	-2.22	-0.67	-6.12	-11.92

270	12.57191	17.96959	19.18216	270	-3.38	-1.13	-6.37	-11.94
271	13.49164	18.34122	19.90706	271	-4.69	-1.96	-6.52	-11.98
272	14.07692	18.56081	20.37175	272	-5.08	-2.43	-6.75	-11.99
273	14.39465	18.64527	20.68773	273	-5.14	-2.64	-6.99	-12
274	14.54515	18.69595	20.87361	274	-5.21	-2.94	-7.14	-12.01
275	14.61204	18.76351	21.0223	275	-4.87	-3.06	-7.19	-12.02
276	14.62876	18.74662	21.15242	276	-4.46	-3.25	-7.19	-12.03
277	14.54515	18.71284	21.13383	277	-4.19	-3.44	-7.16	-12.03
278	14.41137	18.61149	21.11524	278	-3.98	-3.59	-7.09	-12.02
279	14.31104	18.52703	20.96654	279	-3.77	-3.71	-7.03	-12.02
280	14.11037	18.29054	20.68773	280	-3.53	-3.77	-6.96	-12.03
281	13.80936	17.86824	20.26022	281	-3.49	-3.86	-6.88	-12.02
282	13.52508	17.27703	19.60967	282	-3.49	-3.82	-6.78	-11.99
283	13.12375	16.60135	18.73606	283	-2.91	-3.64	-6.67	-11.99
284	12.55518	15.80743	17.73234	284	-2.3	-3.55	-6.56	-11.99
285	11.91973	14.87838	16.57993	285	-1.43	-3.44	-6.42	-11.99
286	11.1505	14	15.27881	286	-1.35	-3.3	-6.29	-11.98
287	10.43144	13.34122	14.16357	287	-1.24	-3.13	-6.18	-11.97
288	9.879599	13.08784	13.5316	288	-0.95	-2.95	-6.09	-11.97
289	9.494983	13.1723	13.25279	289	-0.62	-2.77	-6.02	-11.96
290	9.327759	13.45946	13.27138	290	-0.33	-2.58	-5.96	-11.96
291	9.26087	13.78041	13.42007	291	-0.15	-2.42	-5.94	-11.96
292	9.377926	14.05068	13.56877	292	-0.02	-2.26	-5.91	-11.95
293	9.578595	14.32095	13.84758	293	0.07	-2.1	-5.88	-11.94
294	9.712375	14.54054	14.14498	294	0.15	-1.94	-5.84	-11.94
295	9.812709	14.74324	14.42379	295	0.22	-1.79	-5.81	-11.92
296	9.862876	14.91216	14.7026	296	0.28	-1.64	-5.77	-11.92
297	9.913043	15.01351	14.88848	297	0.34	-1.5	-5.74	-11.94
298	9.979933	15.0473	15.07435	298	0.39	-1.37	-5.71	-11.96
299	9.996656	15.16554	15.31599	299	0.46	-1.24	-5.69	-11.98
300	10.0301	15.21622	15.46468	300	0.53	-1.11	-5.66	-12
301	10.08027	15.23311	15.55762	301	0.61	-0.99	-5.63	-12.01
302	10.08027	15.28378	15.63197	302	0.7	-0.88	-5.61	-12
303	10.11371	15.26689	15.72491	303	0.79	-0.76	-5.58	-11.97
304	10.14716	15.23311	15.85502	304	0.88	-0.65	-5.56	-11.95
305	10.19732	15.28378	15.87361	305	0.96	-0.55	-5.54	-11.93
306	10.21405	15.28378	15.91078	306	1.05	-0.46	-5.52	-11.9
307	10.23077	15.25	15.91078	307	1.13	-0.36	-5.5	-11.89
308	10.21405	15.31757	15.94796	308	1.21	-0.27	-5.48	-11.9
309	10.23077	15.33446	15.91078	309	1.29	-0.18	-5.45	-11.92
310	10.24749	15.30068	15.91078	310	1.36	-0.08	-5.43	-11.91
311	10.24749	15.28378	15.94796	311	1.44	0.01	-5.41	-11.88
312	10.28094	15.30068	15.98513	312	1.51	0.09	-5.38	-11.87
313	10.26421	15.31757	16.00372	313	1.59	0.18	-5.36	-11.87
314	10.23077	15.26689	16.05948	314	1.66	0.25	-5.34	-11.84

315	10.21405	15.28378	16.07807	315	1.72	0.33	-5.32	-11.84
316	10.21405	15.26689	16.15242	316	1.79	0.4	-5.3	-11.85
317	10.19732	15.28378	16.20818	317	1.86	0.48	-5.29	-11.85
318	10.26421	15.30068	16.09665	318	1.74	0.54	-5.28	-11.84
319	10.44816	15.80743	16.56134	319	-0.57	0.18	-5.44	-11.87
320	11.1505	16.82095	17.63941	320	-1.98	-0.26	-5.78	-11.9
321	12.17057	17.63176	18.73606	321	-3.21	-0.67	-6.07	-11.94
322	12.95652	18.10473	19.57249	322	-3.52	-1.31	-6.31	-11.95
323	13.44147	18.35811	20.13011	323	-3.42	-1.44	-6.48	-11.96
324	13.70903	18.51014	20.42751	324	-3.33	-1.7	-6.54	-11.97
325	13.82609	18.54392	20.65056	325	-3.35	-1.95	-6.57	-11.99
326	13.87625	18.45946	20.74349	326	-3.24	-2.18	-6.58	-11.97
327	13.89298	18.42568	20.74349	327	-3.07	-2.35	-6.56	-11.96
328	13.84281	18.18919	20.52045	328	-2.9	-2.49	-6.52	-11.94
329	13.62542	17.83446	20.13011	329	-2.82	-2.64	-6.48	-11.94
330	13.27425	17.31081	19.62825	330	-2.93	-2.73	-6.4	-11.93
331	12.90635	16.60135	18.86617	331	-2.6	-2.61	-6.33	-11.93
332	12.43813	15.72297	17.84387	332	-1.85	-2.55	-6.23	-11.94
333	11.85284	14.86149	16.69145	333	-1.29	-2.5	-6.11	-11.94
334	11.23411	14.18581	15.53903	334	-1.08	-2.4	-6.02	-11.93
335	10.63211	13.76351	14.53532	335	-0.89	-2.29	-5.94	-11.93
336	10.1806	13.69595	14.03346	336	-0.54	-2.17	-5.87	-11.91
337	9.946488	13.88176	13.99628	337	-0.23	-2.03	-5.83	-11.91
338	9.896321	14.13514	14.16357	338	0	-1.9	-5.8	-11.91
339	9.996656	14.45608	14.38662	339	0.15	-1.77	-5.77	-11.9
340	10.1806	14.74324	14.62825	340	0.26	-1.64	-5.74	-11.89
341	10.29766	14.91216	14.86989	341	0.33	-1.52	-5.71	-11.88
342	10.38127	15.06419	15.11152	342	0.41	-1.4	-5.68	-11.88
343	10.38127	15.13176	15.31599	343	0.47	-1.28	-5.65	-11.87
344	10.39799	15.16554	15.50186	344	0.54	-1.16	-5.62	-11.85
345	10.43144	15.23311	15.63197	345	0.57	-1.05	-5.6	-11.85
346	10.38127	15.21622	15.72491	346	0.62	-0.94	-5.58	-11.85
347	10.36455	15.23311	15.89219	347	0.68	-0.83	-5.56	-11.84
348	10.43144	15.28378	16.0223	348	0.75	-0.72	-5.54	-11.82
349	10.43144	15.33446	16.09665	349	0.82	-0.61	-5.51	-11.82
350	10.39799	15.38514	16.13383	350	0.9	-0.51	-5.49	-11.85
351	10.39799	15.35135	16.171	351	0.98	-0.42	-5.47	-11.87
352	10.34783	15.35135	16.24535	352	1.06	-0.32	-5.45	-11.9
353	10.38127	15.36824	16.20818	353	1.15	-0.23	-5.42	-11.91
354	10.36455	15.43581	16.22677	354	1.24	-0.14	-5.4	-11.91
355	10.43144	15.40203	16.26394	355	1.31	-0.05	-5.38	-11.89
356	10.41472	15.40203	16.24535	356	1.39	0.03	-5.36	-11.86
357	10.41472	15.41892	16.30112	357	1.46	0.11	-5.35	-11.84
358	10.39799	15.33446	16.26394	358	1.54	0.2	-5.32	-11.83
359	10.39799	15.35135	16.28253	359	1.62	0.28	-5.3	-11.81

360	10.44816	15.41892	16.28253	360	1.68	0.35	-5.28	-11.8
361	10.43144	15.43581	16.30112	361	1.74	0.42	-5.26	-11.79
362	10.44816	15.40203	16.33829	362	1.81	0.49	-5.24	-11.77
363	10.43144	15.41892	16.35688	363	1.12	0.47	-5.25	-11.78
364	10.76589	16.16216	17.08178	364	-1.18	0.03	-5.5	-11.82
365	11.61873	17.19257	18.21561	365	-2.81	-0.37	-5.84	-11.86
366	12.48829	17.81757	19.12639	366	-3.16	-0.95	-6.15	-11.88
367	13.07358	18.20608	19.79554	367	-3.17	-1.11	-6.34	-11.9
368	13.47492	18.40878	20.24164	368	-3.07	-1.37	-6.41	-11.92
369	13.69231	18.49324	20.52045	369	-3.05	-1.64	-6.46	-11.93
370	13.82609	18.5777	20.65056	370	-2.92	-1.86	-6.47	-11.94
371	13.80936	18.51014	20.65056	371	-2.82	-2.04	-6.46	-11.93
372	13.72575	18.32432	20.63197	372	-2.77	-2.2	-6.45	-11.94
373	13.57525	17.96959	20.40892	373	-2.65	-2.32	-6.42	-11.91
374	13.30769	17.49662	19.92565	374	-2.54	-2.44	-6.37	-11.92
375	12.95652	16.93919	19.20074	375	-2.67	-2.52	-6.29	-11.93
376	12.50502	16.24662	18.27138	376	-2.05	-2.4	-6.2	-11.92
377	11.98662	15.46959	17.28625	377	-1.22	-2.36	-6.08	-11.91
378	11.38462	14.625	16.15242	378	-0.79	-2.3	-5.98	-11.92
379	10.79933	14.06757	14.98141	379	-0.9	-2.19	-5.89	-11.91
380	10.41472	13.86486	14.27509	380	-0.62	-2.09	-5.82	-11.91
381	10.13043	13.93243	14.05204	381	-0.27	-1.97	-5.77	-11.89
382	9.979933	14.2027	14.14498	382	0.01	-1.84	-5.74	-11.89
383	9.996656	14.50676	14.33086	383	0.17	-1.71	-5.71	-11.86
384	10.13043	14.72635	14.62825	384	0.27	-1.59	-5.68	-11.86
385	10.26421	14.97973	14.92565	385	0.36	-1.48	-5.66	-11.84
386	10.34783	15.13176	15.16729	386	0.46	-1.35	-5.63	-11.85
387	10.48161	15.18243	15.37175	387	0.53	-1.23	-5.6	-11.85
388	10.53177	15.23311	15.57621	388	0.58	-1.12	-5.58	-11.83
389	10.51505	15.28378	15.66914	389	0.64	-1.01	-5.55	-11.82
390	10.49833	15.28378	15.78067	390	0.7	-0.89	-5.53	-11.81
391	10.44816	15.31757	15.94796	391	0.75	-0.78	-5.5	-11.8
392	10.44816	15.36824	16.00372	392	0.82	-0.67	-5.47	-11.79
393	10.43144	15.36824	16.05948	393	0.89	-0.57	-5.45	-11.79
394	10.41472	15.38514	16.171	394	0.95	-0.46	-5.43	-11.81
395	10.43144	15.40203	16.171	395	1.01	-0.36	-5.4	-11.82

Adsorp_exp_12

Experiment type: Adsorption experiment. The regolith type is JSC Mars-1 in this experiment, with a thickness of 2 mm. The initial weight was 42.72 g. The humidity buffer was LiCl which

has a RH of 11.31 at 0 degrees Celsius. Temperature around the sample was as close to 0 degrees Celsius as possible, cooled with the chiller system.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= humidity buffer 3= atmosphere 4= sample

Mass		RH				T				
Min.	Mass	Min.	Ch02	Ch03	Ch04	Min.	Ch01	Ch02	Ch03	Ch04
0	49.88	0	29.71906	33.75338	31.72862	0	12.65	-0.02	-1.2	-7.1
2	49.35	1	29.93645	37.75676	30.26022	1	2.41	-1.26	-1.37	-7.4
4	49.21	2	30.15385	42.19932	27.7881	2	-2.37	-3.58	-2.31	-7.61
6	49.2	3	30.58863	42.11486	26.4684	3	-0.3	-1.95	-2.51	-7.64
8	49.28	4	31.52508	39.93581	26.65428	4	0.88	-1.08	-2.3	-7.63
10	49.3	5	32.16054	35.91554	27.36059	5	1.9	-0.54	-2.15	-7.62
12	49.3	6	31.92642	32.38514	28.30855	6	2.95	-0.11	-2.07	-7.57
14	49.29	7	31.10702	29.41216	28.92193	7	3.61	0.23	-2	-7.53
16	49.29	8	29.85284	24.36149	27.71375	8	3.96	0.54	-1.95	-7.49
18	49.29	9	24.63545	11.65878	21.71004	9	3.13	0.52	-2.22	-7.59
20	49.31	10	15.90635	1.804054	13.25279	10	1.75	-0.06	-3.23	-7.65
22	49.34	11	8.799331	8.222973	7.342007	11	1.51	-0.66	-3.89	-7.7
24	49.37	12	4.117057	11.51689	3.457249	12	1.38	-1.2	-4.25	-7.74
26	49.41	13	1.073579	13.12162	0.650558	13	1.22	-1.67	-4.45	-7.74
28	49.44	14	1.083612	13.64527	1.412639	14	0.66	-2.08	-4.55	-7.73
30	49.47	15	2.655518	13.49324	3.066914	15	0.44	-2.37	-4.57	-7.7
32	49.49	16	3.725753	13.05405	4.479554	16	0.33	-2.57	-4.54	-7.66
34	49.51	17	4.377926	12.42905	5.408922	17	0.32	-2.7	-4.48	-7.64
36	49.53	18	4.662207	11.75338	5.910781	18	0.42	-2.76	-4.38	-7.62
38	46.97	19	4.61204	10.80743	6.115242	19	0.56	-2.75	-4.26	-7.61
40	51.5	20	4.377926	9.574324	6.05948	20	0.7	-2.7	-4.12	-7.6
42	48.85	21	3.826087	8.324324	5.520446	21	0.84	-2.6	-3.98	-7.59
44	49.19	22	2.923077	6.787162	4.553903	22	1.12	-2.48	-3.83	-7.58
46	49.43	23	1.869565	5.165541	3.457249	23	1.3	-2.31	-3.69	-7.58
48	49.45	24	0.782609	3.864865	2.156134	24	1.4	-2.14	-3.56	-7.58
50	49.44	25	0.404682	2.429054	0.724907	25	1.62	-1.93	-3.43	-7.56
52	49.44	26	1.575251	0.773649	0.520446	26	1.83	-1.7	-3.31	-7.56
54	49.45	27	2.67893	0.594595	1.542751	27	2.05	-1.46	-3.2	-7.55
56	49.46	28	3.816054	1.337838	2.434944	28	2.28	-1.22	-3.09	-7.53
58	49.47	29	4.785953	1.388514	3.066914	29	2.53	-0.96	-2.98	-7.52
60	49.5	30	5.421405	0.425676	3.271375	30	2.8	-0.72	-2.9	-7.51
62	49.52	31	5.705686	0.976351	2.769517	31	3.08	-0.47	-2.83	-7.47
64	49.53	32	5.80602	2.040541	1.69145	32	3.28	-0.24	-2.79	-7.44

66	49.54	33	5.789298	2.716216	0.594796	33	3.44	-0.01	-2.76	-7.42
68	49.55	34	5.521739	3.341216	0.371747	34	3.56	0.2	-2.72	-7.4
70	49.56	35	5.070234	4.016892	1.356877	35	3.67	0.4	-2.71	-7.39
72	49.57	36	4.401338	4.726351	2.267658	36	3.77	0.59	-2.72	-7.37
74	49.57	37	3.448161	5.638514	3.159851	37	3.87	0.77	-2.73	-7.35
76	49.58	38	1.123746	8.459459	4.776952	38	1.87	0.66	-2.86	-7.41
78	49.58	39	2.404682	12.19257	6.840149	39	-0.73	-0.15	-3.45	-7.49
80	48.42	40	5.297659	14.40541	8.197026	40	-1.18	-1.01	-4.13	-7.59
82	49.95	41	7.270903	15.60473	8.94052	41	-1.83	-1.73	-4.76	-7.65
84	49.36	42	8.658863	16.26351	9.535316	42	-1.34	-2.35	-5.22	-7.68
86	49.5	43	9.695652	16.68581	10.09294	43	-1.51	-2.93	-5.48	-7.71
88	49.51	44	10.51505	16.97297	10.65056	44	-1.96	-3.42	-5.52	-7.72
90	49.5	45	11.20067	17.14189	11.3197	45	-2.05	-3.8	-5.38	-7.73
92	49.51	46	11.73579	17.24324	11.89591	46	-2.03	-4.12	-5.23	-7.75
94	49.52	47	12.13712	17.29392	12.43494	47	-1.91	-4.39	-5.12	-7.75
96	49.53	48	12.45485	17.29392	12.99257	48	-1.73	-4.59	-5.03	-7.76
98	49.55	49	12.67224	17.39527	13.43866	49	-1.58	-4.74	-4.95	-7.75
100	49.56	50	12.82274	17.42905	13.75465	50	-1.42	-4.84	-4.87	-7.75
102	49.57	51	12.90635	17.26014	14.03346	51	-1.24	-4.87	-4.77	-7.73
104	49.57	52	12.95652	16.97297	14.29368	52	-1.06	-4.86	-4.65	-7.72
106	49.58	53	12.83946	16.61824	14.34944	53	-0.84	-4.8	-4.53	-7.68
108	49.58	54	12.58863	16.02703	14.20074	54	-0.63	-4.69	-4.41	-7.66
110	49.58	55	12.22074	15.18243	13.79182	55	-0.45	-4.54	-4.29	-7.63
112	49.59	56	11.68562	14.18581	13.28996	56	-0.3	-4.36	-4.17	-7.61
114	48.89	57	10.93311	13.05405	12.67658	57	-0.15	-4.13	-4.04	-7.58
116	49.39	58	9.979933	11.7027	11.84015	58	0	-3.88	-3.9	-7.57
118	49.52	59	8.993311	10.11486	10.85502	59	0.56	-3.59	-3.75	-7.53
120	49.53	60	8.107023	8.983108	9.776952	60	0.27	-3.3	-3.64	-7.52
122	49.53	61	7.371237	8.611486	8.773234	61	0.56	-3	-3.53	-7.48
124	49.53	62	6.735786	8.695946	8.141264	62	0.8	-2.71	-3.44	-7.45
126	49.54	63	6.217391	9.050676	7.95539	63	1.05	-2.42	-3.35	-7.4
128	49.56	64	5.899666	9.489865	8.02974	64	1.28	-2.13	-3.28	-7.37
130	49.57	65	5.648829	9.844595	8.252788	65	1.52	-1.85	-3.21	-7.37
132	49.57	66	5.464883	10.19932	8.605948	66	1.76	-1.58	-3.16	-7.37
134	49.58	67	5.331104	10.4527	8.94052	67	1.98	-1.33	-3.12	-7.37
136	49.58	68	5.180602	10.52027	9.200743	68	2.1	-1.09	-3.06	-7.35
138	49.58	69	5.09699	10.62162	9.405204	69	2.22	-0.88	-3.02	-7.34
140	49.59	70	5.013378	10.65541	9.628253	70	2.51	-0.66	-2.97	-7.34
142	49.59	71	4.879599	10.89189	9.925651	71	2.78	-0.45	-2.92	-7.33
144	49.46	72	4.879599	11.2973	10.24164	72	2.99	-0.26	-2.91	-7.33
146	49.53	73	5.09699	11.75338	10.61338	73	3.17	-0.09	-2.89	-7.32
148	49.55	74	5.381271	12.22635	11.07807	74	3.32	0.08	-2.87	-7.31
150	49.54	75	5.598662	12.56419	11.52416	75	3.45	0.25	-2.85	-7.3
152	49.54	76	5.866221	12.80068	11.87732	76	3.58	0.41	-2.82	-7.29
154	49.55	77	6.133779	13.03716	12.19331	77	3.69	0.56	-2.8	-7.28

156	49.56	78	6.351171	13.29054	12.50929	78	3.76	0.71	-2.76	-7.26
158	49.57	79	7.270903	14.28716	13.21561	79	1.41	0.55	-2.84	-7.31
160	49.58	80	9.043478	15.89189	14.27509	80	-0.35	-0.03	-3.2	-7.38
162	49.58	81	10.68227	16.98986	15.18587	81	-0.96	-0.63	-3.52	-7.43
164	49.58	82	11.78595	17.58108	15.74349	82	-0.99	-1.15	-3.77	-7.48
166	49.58	83	12.47157	17.91892	16.04089	83	-1.38	-1.63	-3.92	-7.54
168	49.59	84	12.92308	18.07095	16.33829	84	-1.33	-2.02	-3.97	-7.57
170	49.59	85	13.29097	18.1723	16.57993	85	-1.18	-2.37	-4.01	-7.6
172	49.26	86	13.59197	18.1723	16.7658	86	-0.99	-2.67	-4.04	-7.61
174	49.46	87	13.80936	18.12162	16.9145	87	-0.8	-2.93	-4.06	-7.61
176	49.54	88	13.94314	18.02027	17.0632	88	-0.63	-3.12	-4.06	-7.61
178	49.53	89	14.01003	17.90203	17.13755	89	-0.51	-3.26	-4.05	-7.59
180	49.53	90	13.99331	17.59797	17.13755	90	-0.38	-3.33	-4.01	-7.56
182	49.54	91	13.84281	17.15878	17.02602	91	-0.26	-3.36	-3.95	-7.54
184	49.55	92	13.57525	16.63514	16.78439	92	-0.14	-3.34	-3.89	-7.52
186	49.56	93	13.2408	15.92568	16.35688	93	-0.05	-3.27	-3.82	-7.51
188	49.57	94	12.72241	14.94595	15.66914	94	0.05	-3.14	-3.72	-7.46
190	49.58	95	12.00334	13.88176	14.88848	95	0.15	-2.99	-3.63	-7.41
192	49.58	96	11.06689	12.64865	13.94052	96	0.73	-2.82	-3.53	-7.37
194	49.58	97	10.06355	11.48311	12.97398	97	0.68	-2.61	-3.44	-7.37
196	49.58	98	9.327759	10.92568	12.28625	98	0.74	-2.37	-3.34	-7.36
198	49.59	99	8.809365	10.99324	11.93309	99	0.93	-2.14	-3.27	-7.37
200	49.59	100	8.491639	11.28041	11.82156	100	1.18	-1.9	-3.2	-7.36
202	48.88	101	8.274247	11.56757	11.82156	101	1.44	-1.66	-3.14	-7.35
204	49.29	102	8.090301	11.78716	11.9145	102	1.69	-1.43	-3.09	-7.35
206	49.53	103	7.923077	11.97297	12.10037	103	1.94	-1.21	-3.05	-7.36
208	49.53	104	7.73913	12.22635	12.24907	104	2.2	-0.99	-3.01	-7.35
210	49.52	105	7.638796	12.53041	12.39777	105	2.43	-0.77	-2.97	-7.32
212	49.52	106	7.688963	12.88514	12.58364	106	2.6	-0.58	-2.95	-7.31
214	49.53	107	7.789298	13.22297	12.84387	107	2.78	-0.39	-2.93	-7.29
216	49.54	108	7.923077	13.45946	13.17844	108	2.94	-0.21	-2.9	-7.28
218	49.55	109	8.073579	13.62838	13.56877	109	3.08	-0.04	-2.87	-7.27
220	49.57	110	8.140468	13.78041	13.92193	110	3.24	0.13	-2.84	-7.25
222	49.57	111	8.157191	13.98311	14.12639	111	3.38	0.29	-2.82	-7.24
224	49.58	112	8.173913	14.10135	14.29368	112	3.51	0.44	-2.78	-7.22
226	49.58	113	8.22408	14.2027	14.5539	113	3.62	0.58	-2.76	-7.21
228	49.58	114	8.725753	14.89527	15.26022	114	1.63	0.47	-2.83	-7.27
230	49.59	115	9.812709	16.17905	16.48699	115	-0.3	0.06	-3.13	-7.32
232	49.59	116	10.93311	17.19257	17.52788	116	-0.68	-0.35	-3.36	-7.35
234	49.59	117	11.80268	17.75	18.10409	117	-0.68	-0.72	-3.52	-7.39
236	48.7	118	12.45485	18.00338	18.42007	118	-0.54	-1.06	-3.62	-7.43
238	48.83	119	12.95652	18.08784	18.60595	119	-0.34	-1.35	-3.68	-7.45
240	49.16	120	13.37458	18.02027	18.71747	120	-0.18	-1.6	-3.72	-7.47
242	49.53	121	13.64214	17.86824	18.79182	121	-0.05	-1.79	-3.74	-7.47
244	49.52	122	13.74247	17.66554	18.75465	122	0.07	-1.93	-3.72	-7.47

246	49.52	123	13.72575	17.31081	18.5316	123	0.18	-2.03	-3.7	-7.47
248	49.52	124	13.55853	16.82095	18.12268	124	0.25	-2.06	-3.66	-7.46
250	49.53	125	13.20736	16.17905	17.50929	125	0.33	-2.05	-3.59	-7.44
252	49.54	126	12.72241	15.31757	16.7658	126	0.45	-1.99	-3.52	-7.42
254	49.55	127	12.05351	14.35473	15.79926	127	0.54	-1.92	-3.44	-7.41
256	49.57	128	11.1505	13.375	14.62825	128	0.84	-1.82	-3.35	-7.38
258	49.58	129	10.34783	12.59797	13.58736	129	0.93	-1.65	-3.26	-7.36
260	49.59	130	9.795987	12.24324	12.89963	130	1.11	-1.48	-3.17	-7.35
262	49.59	131	9.428094	12.34459	12.65799	131	1.3	-1.3	-3.11	-7.34
264	49.6	132	9.227425	12.61486	12.71375	132	1.51	-1.12	-3.06	-7.33
266	49.6	133	9.076923	12.86824	12.86245	133	1.71	-0.93	-3.01	-7.32
268	49.6	134	8.976589	13.22297	13.2342	134	1.9	-0.75	-2.99	-7.31
270	49.61	135	9.010033	13.5777	13.66171	135	2.1	-0.58	-2.97	-7.3
272	49.61	136	9.026756	13.88176	14.01487	136	2.31	-0.41	-2.95	-7.27
274	49.61	137	9.060201	14.13514	14.31227	137	2.51	-0.25	-2.92	-7.25
276	51.3	138	9.093645	14.27027	14.60967	138	2.7	-0.09	-2.89	-7.24
278	50.38	139	9.143813	14.38851	14.88848	139	2.87	0.07	-2.86	-7.22
280	48.33	140	9.076923	14.50676	15.20446	140	3.03	0.22	-2.83	-7.2
282	48.6	141	9.060201	14.57432	15.42751	141	3.18	0.36	-2.8	-7.19
284	49.31	142	9.076923	14.64189	15.50186	142	3.31	0.49	-2.78	-7.19
286	48.65	143	9.177258	14.87838	15.78067	143	2.84	0.58	-2.77	-7.18
288	47.6	144	9.795987	15.77365	16.74721	144	0.42	0.3	-2.95	-7.23
290	45.94	145	11	16.87162	17.99257	145	-0.29	-0.03	-3.2	-7.28
292	48.32	146	12.18729	17.61486	18.79182	146	-0.32	-0.35	-3.36	-7.33
294	49.35	147	12.9398	18.00338	19.27509	147	-0.2	-0.65	-3.47	-7.37
296	49.49	148	13.44147	18.08784	19.59108	148	-0.01	-0.91	-3.54	-7.38
298	49.49	149	13.79264	18.03716	19.73978	149	0.14	-1.12	-3.57	-7.39
300	49.48	150	14.02676	17.91892	19.75836	150	0.26	-1.28	-3.58	-7.39
302	49.48	151	14.16054	17.64865	19.64684	151	0.37	-1.4	-3.57	-7.39
304	49.48	152	14.04348	17.22635	19.36803	152	0.47	-1.47	-3.54	-7.38
306	49.49	153	13.77592	16.65203	18.84758	153	0.56	-1.49	-3.49	-7.37
308	49.51	154	13.37458	15.92568	18.12268	154	0.64	-1.48	-3.44	-7.36
310	49.52	155	12.83946	15.16554	17.13755	155	0.77	-1.43	-3.36	-7.35
312	49.53	156	12.1204	14.27027	15.98513	156	0.78	-1.37	-3.28	-7.33
314	49.54	157	11.301	13.32432	14.83271	157	1	-1.26	-3.2	-7.32
316	49.54	158	10.59866	12.85135	13.92193	158	1.17	-1.13	-3.12	-7.3
318	49.54	159	10.11371	12.83446	13.49442	159	1.33	-0.99	-3.06	-7.3
320	49.55	160	9.795987	13.03716	13.5316	160	1.51	-0.83	-3	-7.28
322	49.56	161	9.645485	13.34122	13.77323	161	1.7	-0.67	-2.96	-7.26
324	49.57	162	9.61204	13.67905	14.10781	162	1.89	-0.52	-2.94	-7.25
326	49.58	163	9.578595	14.06757	14.5539	163	2.08	-0.37	-2.92	-7.22
328	49.59	164	9.528428	14.38851	14.92565	164	2.28	-0.22	-2.9	-7.21
330	49.6	165	9.545151	14.57432	15.1487	165	2.47	-0.07	-2.88	-7.22
332	49.61	166	9.561873	14.64189	15.39033	166	2.65	0.08	-2.84	-7.21
334	49.61	167	9.578595	14.74324	15.63197	167	2.8	0.21	-2.82	-7.2

336	49.61	168	9.595318	14.84459	15.81784	168	2.96	0.36	-2.79	-7.17
338	49.61	169	9.511706	14.91216	16.00372	169	3.1	0.49	-2.77	-7.16
340	49.61	170	9.461538	14.99662	16.18959	170	3.16	0.61	-2.74	-7.16
342	49.58	171	9.913043	15.65541	16.80297	171	1.1	0.46	-2.82	-7.19
344	49.57	172	11.06689	16.77027	18.10409	172	-0.3	0.05	-3.13	-7.22
346	49.56	173	12.2709	17.61486	19.21933	173	-0.75	-0.35	-3.36	-7.27
348	49.56	174	13.19064	18.10473	19.83271	174	-0.71	-0.72	-3.49	-7.29
350	49.56	175	13.89298	18.34122	20.16729	175	-0.49	-1.04	-3.57	-7.31
352	49.58	176	14.32776	18.44257	20.31599	176	-0.16	-1.33	-3.64	-7.33
354	49.63	177	14.66221	18.375	20.46468	177	0.06	-1.57	-3.67	-7.32
356	49.63	178	14.92977	18.22297	20.52045	178	0.18	-1.76	-3.69	-7.33
358	49.63	179	15.01338	18.07095	20.42751	179	0.27	-1.91	-3.69	-7.34
360	49.65	180	14.94649	17.80068	20.26022	180	0.35	-2.01	-3.67	-7.33
362	49.66	181	14.74582	17.31081	19.92565	181	0.42	-2.06	-3.64	-7.32
364	49.66	182	14.37793	16.63514	19.29368	182	0.51	-2.04	-3.58	-7.28
366	49.66	183	13.85953	15.84122	18.3829	183	0.58	-2	-3.52	-7.27
368	49.67	184	13.15719	14.97973	17.36059	184	0.68	-1.91	-3.43	-7.25
370	49.67	185	12.40468	14	16.171	185	0.8	-1.8	-3.35	-7.25
372	49.65	186	11.55184	13.10473	14.94424	186	0.78	-1.67	-3.25	-7.26
374	49.64	187	10.74916	12.63176	13.95911	187	1.04	-1.5	-3.15	-7.25
376	49.62	188	10.23077	12.56419	13.42007	188	1.19	-1.32	-3.08	-7.25
378	49.61	189	9.913043	12.83446	13.42007	189	1.34	-1.14	-3.03	-7.25
380	49.61	190	9.712375	13.08784	13.6803	190	1.52	-0.94	-2.98	-7.24
382	49.61	191	9.61204	13.40878	14.01487	191	1.7	-0.76	-2.95	-7.23
384	49.61	192	9.628763	13.84797	14.38662	192	1.87	-0.59	-2.94	-7.23
386	49.62	193	9.695652	14.18581	14.77695	193	2.05	-0.42	-2.92	-7.22
388	49.65	194	9.745819	14.40541	15.09294	194	2.24	-0.26	-2.89	-7.2
390	49.65	195	9.779264	14.55743	15.37175	195	2.42	-0.09	-2.87	-7.19
392	49.65	196	9.779264	14.69257	15.66914	196	2.6	0.07	-2.83	-7.18
394	49.65	197	9.779264	14.8277	15.91078	197	2.76	0.21	-2.8	-7.17
396	49.65	198	9.779264	14.91216	16.05948	198	2.92	0.35	-2.77	-7.15
398	49.66	199	9.745819	14.97973	16.18959	199	3.07	0.49	-2.75	-7.12
400	49.66	200	9.729097	15.09797	16.35688	200	3.16	0.62	-2.72	-7.08
402	49.66	201	10.11371	15.70608	17.02602	201	1.3	0.47	-2.8	-7.1
404	49.66	202	11.16722	16.80405	18.27138	202	0.87	-0.07	-3.17	-7.18
406	49.57	203	12.28763	17.66554	19.31227	203	0.14	-0.55	-3.56	-7.25
408	49.62	204	13.14047	18.18919	19.96283	204	-0.44	-0.99	-3.79	-7.29
410	49.6	205	13.92642	18.51014	20.42751	205	-0.8	-1.38	-3.82	-7.32
412	49.6	206	14.5786	18.67905	20.72491	206	-0.85	-1.71	-3.84	-7.35
414	49.59	207	15.04682	18.69595	20.89219	207	-0.89	-1.99	-3.87	-7.4
416	49.59	208	15.3311	18.61149	21.0223	208	-0.64	-2.24	-3.89	-7.43
418	49.6	209	15.51505	18.54392	21.13383	209	-0.26	-2.45	-3.9	-7.45
420	49.61	210	15.58194	18.40878	21.07807	210	0.31	-2.62	-3.9	-7.47
422	49.64	211	15.54849	18.1723	20.92937	211	0.27	-2.73	-3.88	-7.45
424	49.64	212	15.41472	17.85135	20.66914	212	0.26	-2.79	-3.84	-7.44

426	49.64	213	15.13043	17.41216	20.27881	213	0.3	-2.8	-3.8	-7.43
428	49.64	214	14.7291	16.78716	19.60967	214	0.38	-2.74	-3.72	-7.41
430	49.64	215	14.2107	16.02703	18.69888	215	0.46	-2.65	-3.65	-7.4
432	49.64	216	13.54181	15.09797	17.65799	216	0.56	-2.51	-3.56	-7.38
434	49.65	217	12.72241	14.11824	16.41264	217	0.7	-2.38	-3.48	-7.36
436	49.65	218	11.78595	13.20608	15.16729	218	0.59	-2.21	-3.37	-7.31
438	49.65	219	10.93311	12.58108	14.18216	219	0.5	-2	-3.27	-7.26
440	49.65	220	10.29766	12.39527	13.66171	220	0.89	-1.78	-3.19	-7.23
442	49.65	221	9.896321	12.61486	13.5316	221	1.14	-1.56	-3.13	-7.2
		222	9.695652	12.90203	13.62454	222	1.28	-1.34	-3.07	-7.17
		223	9.595318	13.1723	13.829	223	1.45	-1.13	-3.02	-7.15
		224	9.494983	13.49324	14.10781	224	1.63	-0.93	-2.99	-7.13
		225	9.461538	13.84797	14.46097	225	1.81	-0.74	-2.96	-7.13
		226	9.528428	14.15203	14.86989	226	2	-0.55	-2.93	-7.15
		227	9.645485	14.4223	15.18587	227	2.18	-0.37	-2.91	-7.16
		228	9.762542	14.64189	15.53903	228	2.36	-0.19	-2.88	-7.15
		229	9.846154	14.77703	15.79926	229	2.52	-0.03	-2.85	-7.15
		230	9.862876	14.91216	15.94796	230	2.66	0.12	-2.83	-7.16
		231	9.846154	15.01351	16.15242	231	2.82	0.27	-2.8	-7.15
		232	9.846154	15.08108	16.24535	232	2.96	0.42	-2.77	-7.15
		233	9.846154	15.11486	16.43123	233	3.1	0.56	-2.74	-7.14
		234	9.779264	15.14865	16.56134	234	3.22	0.69	-2.72	-7.14
		235	9.946488	15.41892	16.97026	235	2.57	0.74	-2.71	-7.16
		236	10.71572	16.33108	17.91822	236	0.98	0.21	-2.99	-7.25
		237	11.95318	17.41216	19.03346	237	2.14	-0.6	-3.4	-7.31
		238	13.05686	18.05405	19.83271	238	-0.12	-1	-3.86	-7.37
		239	13.84281	18.40878	20.31599	239	-0.83	-1.42	-4.39	-7.41
		240	14.41137	18.62838	20.68773	240	-1.05	-1.84	-4.64	-7.45
		241	14.81271	18.74662	20.98513	241	-1.44	-2.2	-4.67	-7.49
		242	15.09699	18.81419	21.15242	242	-1.55	-2.51	-4.73	-7.51
		243	15.34783	18.81419	21.26394	243	-1.13	-2.75	-4.55	-7.52
		244	15.61538	18.7973	21.26394	244	-1.27	-2.93	-4.4	-7.53
		245	15.79933	18.74662	21.24535	245	-0.53	-3.1	-4.3	-7.55
		246	15.83278	18.62838	21.26394	246	-0.01	-3.22	-4.24	-7.54
		247	15.78261	18.39189	21.18959	247	0.04	-3.3	-4.17	-7.53
		248	15.59866	18.05405	20.92937	248	0.11	-3.33	-4.1	-7.51
		249	15.3311	17.59797	20.55762	249	0.09	-3.31	-4.02	-7.48
		250	14.97993	16.97297	19.96283	250	0.16	-3.24	-3.94	-7.49
		251	14.47826	16.21284	19.07063	251	0.27	-3.13	-3.85	-7.46
		252	13.82609	15.33446	17.99257	252	0.38	-2.98	-3.75	-7.44
		253	12.97324	14.4223	16.82156	253	0.49	-2.81	-3.64	-7.42
		254	11.98662	13.35811	15.55762	254	0.55	-2.62	-3.52	-7.39
		255	10.93311	12.3277	14.29368	255	0.84	-2.4	-3.41	-7.37
		256	9.979933	11.75338	13.32714	256	3.11	-2.15	-3.31	-7.35
		257	9.344482	11.58446	12.88104	257	1.96	-1.91	-3.24	-7.34

258	8.959866	11.38176	12.69517	258	2.25	-1.66	-3.17	-7.31
259	8.658863	11.28041	12.60223	259	2.4	-1.42	-3.12	-7.29
260	8.341137	11.38176	12.62082	260	2.55	-1.2	-3.07	-7.25
261	8.123746	11.53378	12.60223	261	2.03	-0.98	-3	-7.23
262	8.023411	11.85473	12.62082	262	1.9	-0.77	-2.94	-7.2
263	8.107023	12.34459	12.88104	263	2.01	-0.57	-2.91	-7.18
264	8.257525	12.90203	13.2342	264	2.15	-0.4	-2.89	-7.15
265	8.441472	13.44257	13.71747	265	2.33	-0.22	-2.86	-7.14
266	8.64214	13.88176	14.23792	266	2.51	-0.05	-2.84	-7.14
267	8.792642	14.15203	14.62825	267	2.7	0.11	-2.8	-7.13
268	8.926421	14.32095	14.96283	268	2.87	0.27	-2.77	-7.12
269	9.010033	14.4223	15.22305	269	3.03	0.42	-2.75	-7.11
270	9.010033	14.48986	15.48327	270	3.16	0.55	-2.73	-7.12
271	8.976589	14.65878	15.78067	271	3.3	0.68	-2.71	-7.11
272	9.043478	14.79392	15.98513	272	3.42	0.82	-2.69	-7.09
273	9.043478	14.86149	16.15242	273	3.53	0.94	-2.67	-7.08
274	9.026756	14.87838	16.30112	274	3.64	1.06	-2.64	-7.06
275	9.277592	15.38514	16.84015	275	2.34	1.01	-2.67	-7.06
276	10.19732	16.46622	17.99257	276	0.23	-0.07	-3.14	-7.13
277	11.58528	17.42905	19.12639	277	-0.46	-0.91	-3.91	-7.2
278	12.85619	18.10473	19.81413	278	0.07	-1.91	-4.82	-7.27
279	13.84281	18.49324	20.18587	279	-0.25	-2.76	-5.73	-7.33
280	14.5786	18.76351	20.39033	280	-0.35	-3.3	-6.38	-7.4
281	15.13043	19	20.61338	281	-0.18	-3.93	-6.64	-7.44
282	15.56522	19.16892	20.81784	282	-0.17	-4.46	-6.76	-7.47
283	15.89967	19.25338	20.94796	283	-0.28	-4.86	-6.83	-7.49
284	16.16722	19.33784	21.0223	284	-0.41	-5.28	-6.84	-7.52
285	16.36789	19.45608	21.11524	285	-0.51	-5.64	-6.84	-7.56
286	16.50167	19.52365	21.20818	286	-0.59	-6.02	-6.97	-7.62
287	16.60201	19.59122	21.28253	287	-0.64	-6.4	-7.12	-7.64
288	16.65217	19.625	21.3197	288	-0.94	-6.87	-7.34	-7.65
289	16.6689	19.69257	21.37546	289	-1.39	-7.35	-7.52	-7.68
290	16.63545	19.70946	21.35688	290	-1.63	-7.78	-7.77	-7.71
291	16.61873	19.76014	21.43123	291	-2.09	-8.12	-8.03	-7.73
292	16.56856	19.79392	21.41264	292	-2.09	-8.49	-8.17	-7.75
293	16.51839	19.74324	21.39405	293	-2.07	-8.85	-8.25	-7.77
294	16.55184	19.76014	21.44981	294	-2.17	-9.1	-8.18	-7.76
295	16.55184	19.76014	21.54275	295	-1.51	-9.22	-8.03	-7.75
296	16.60201	19.77703	21.43123	296	-0.73	-9.29	-7.68	-7.73
297	16.60201	19.76014	21.43123	297	-0.84	-9.11	-7.28	-7.73
298	16.65217	19.69257	21.35688	298	-1.32	-8.96	-6.94	-7.72
299	16.71906	19.625	21.28253	299	-1.58	-8.81	-6.66	-7.7
300	16.73579	19.54054	21.22677	300	-1.8	-8.63	-6.43	-7.68
301	16.65217	19.40541	21.05948	301	-1.16	-8.41	-6.23	-7.67
302	16.70234	19.23649	20.96654	302	-0.62	-8.15	-6.03	-7.68

303	16.65217	19.08446	20.87361	303	-0.86	-7.84	-5.84	-7.69
304	16.48495	18.81419	20.63197	304	-0.92	-7.55	-5.68	-7.71
305	16.18395	18.39189	20.31599	305	-0.89	-7.24	-5.53	-7.74
306	15.71572	17.73311	19.73978	306	-1.34	-6.98	-5.38	-7.73
307	15.19732	16.9223	19.07063	307	-1.37	-6.74	-5.22	-7.7
308	14.56187	16.14527	18.28996	308	-1.74	-6.53	-5.02	-7.7
309	13.69231	15.33446	17.32342	309	-1.51	-6.3	-4.85	-7.67
310	12.85619	14.50676	16.171	310	-1.88	-5.96	-4.69	-7.64
311	12.1204	13.84797	15.05576	311	-1.96	-5.46	-4.54	-7.62
312	11.33445	13.39189	14.18216	312	-1.55	-5.09	-4.42	-7.61
313	10.66555	13.15541	13.58736	313	-1.93	-4.87	-4.29	-7.57
314	10.21405	13.34122	13.32714	314	-0.66	-4.39	-4.22	-7.56
315	9.896321	13.84797	13.40149	315	-0.19	-4.06	-4.18	-7.53
316	9.67893	14.35473	13.79182	316	-0.17	-3.74	-4.13	-7.53
317	9.545151	14.76014	14.29368	317	0.18	-3.42	-4.07	-7.48
318	9.578595	15.06419	14.75836	318	0.46	-3.14	-3.98	-7.43
319	9.729097	15.13176	15.11152	319	0.37	-2.87	-3.89	-7.4
320	9.812709	14.99662	15.33457	320	0.42	-2.62	-3.83	-7.39
321	9.862876	14.8277	15.46468	321	0.48	-2.38	-3.76	-7.38
322	9.913043	14.72635	15.53903	322	0.51	-2.16	-3.7	-7.39
323	9.862876	14.59122	15.53903	323	0.76	-1.94	-3.63	-7.37
324	9.829431	14.47297	15.46468	324	0.95	-1.73	-3.56	-7.37
325	9.779264	14.38851	15.40892	325	1.09	-1.53	-3.5	-7.37
326	9.628763	14.27027	15.31599	326	1.24	-1.34	-3.45	-7.37
327	9.478261	14.11824	15.18587	327	1.4	-1.15	-3.39	-7.36
328	9.327759	13.91554	15.09294	328	1.56	-0.97	-3.34	-7.35
329	9.143813	13.76351	15	329	1.71	-0.79	-3.29	-7.34
330	8.976589	13.62838	14.83271	330	1.85	-0.63	-3.25	-7.32
331	8.77592	13.47635	14.7026	331	1.99	-0.47	-3.2	-7.3
332	8.541806	13.35811	14.59108	332	2.14	-0.29	-3.14	-7.26
333	8.441472	13.39189	14.49814	333	2.26	-0.14	-3.09	-7.24
334	8.424749	13.67905	14.60967	334	2.37	0	-3.07	-7.23
335	8.558528	14.08446	14.94424	335	2.48	0.13	-3.06	-7.24
336	8.826087	14.38851	15.33457	336	2.6	0.27	-3.03	-7.24
337	9.026756	14.625	15.68773	337	2.71	0.4	-3.01	-7.23
338	9.12709	14.86149	15.98513	338	2.81	0.52	-2.99	-7.23
339	9.411371	15.33446	16.52416	339	1.84	0.5	-3.01	-7.24
340	10.16388	16.38176	17.71375	340	0.05	0.07	-3.3	-7.32
341	11.35117	17.36149	18.92193	341	-0.8	-0.35	-3.57	-7.37
342	12.43813	17.90203	19.7026	342	-1.01	-0.74	-3.76	-7.42
343	13.22408	18.18919	20.1487	343	-0.25	-1.08	-3.93	-7.45
344	13.77592	18.35811	20.39033	344	-0.66	-1.37	-4.05	-7.44
345	14.14381	18.40878	20.53903	345	-0.61	-1.62	-4.13	-7.42
346	14.34448	18.27365	20.61338	346	-0.53	-1.82	-4.15	-7.4
347	14.39465	18.12162	20.66914	347	-0.51	-1.98	-4.14	-7.38

348	14.29431	17.80068	20.48327	348	-0.48	-2.08	-4.1	-7.36
349	14.07692	17.39527	20.13011	349	-0.45	-2.14	-4.05	-7.33
350	13.67559	16.83784	19.59108	350	-0.4	-2.16	-3.98	-7.3
351	13.00669	15.90878	18.73606	351	0.56	-2.16	-3.88	-7.29
352	12.07023	14.74324	17.58364	352	0.8	-2.09	-3.78	-7.3
353	11.10033	13.51014	16.24535	353	0.94	-1.98	-3.68	-7.3
354	10.16388	12.15878	14.81413	354	1.13	-1.85	-3.59	-7.32
355	9.093645	10.57095	13.36431	355	1.52	-1.82	-3.49	-7.31
356	8.123746	9.540541	12.32342	356	1.31	-1.63	-3.37	-7.35
357	7.505017	9.523649	11.82156	357	1.03	-1.42	-3.29	-7.37
358	7.187291	9.760135	11.59851	358	1.08	-1.24	-3.22	-7.36
359	6.886288	9.219595	11.35688	359	1.45	-1.08	-3.15	-7.34
360	6.535117	8.915541	11.15242	360	3.04	-0.91	-3.07	-7.36
361	6.317726	9.219595	11.05948	361	2.97	-0.68	-3.06	-7.36
362	6.267559	9.625	11.0223	362	2.3	-0.55	-3.04	-7.35
363	6.317726	9.962838	11.15242	363	2.71	-0.39	-3.01	-7.36
364	6.301003	10.30068	11.26394	364	2.18	-0.25	-2.97	-7.34
365	6.401338	10.65541	11.37546	365	2.04	-0.1	-2.94	-7.32
366	6.551839	10.99324	11.56134	366	2.03	0.04	-2.92	-7.31
367	6.819398	11.38176	11.82156	367	2.18	0.16	-2.91	-7.29
368	7.086957	11.75338	12.00743	368	2.29	0.29	-2.89	-7.26
369	7.270903	12.02365	12.2119	369	2.41	0.4	-2.88	-7.23
370	7.438127	12.3277	12.43494	370	2.53	0.51	-2.86	-7.2
371	7.722408	12.83446	12.69517	371	2.52	0.62	-2.85	-7.18
372	8.408027	14.16892	13.71747	372	0.64	0.35	-3.02	-7.25
373	9.595318	15.84122	15.52045	373	0.27	-0.13	-3.41	-7.31
374	10.83278	16.83784	17.00743	374	0.04	-0.59	-3.62	-7.36
375	11.76923	17.46284	17.97398	375	-0.24	-1.01	-3.76	-7.39
376	12.37124	17.78378	18.6803	376	-0.41	-1.37	-3.88	-7.44
377	12.77258	17.90203	19.20074	377	-0.45	-1.7	-3.96	-7.46
378	13.05686	17.91892	19.59108	378	-0.31	-1.98	-4.02	-7.48
379	13.25753	17.81757	19.79554	379	0.2	-2.21	-4.05	-7.47
380	13.3913	17.61486	19.81413	380	0.42	-2.38	-4.06	-7.44
381	13.44147	17.29392	19.62825	381	0.47	-2.49	-4.03	-7.42
382	13.3913	16.83784	19.27509	382	0.53	-2.55	-3.99	-7.42
383	13.20736	16.24662	18.71747	383	0.59	-2.56	-3.93	-7.4
384	12.82274	15.50338	17.91822	384	0.6	-2.51	-3.86	-7.36
385	12.20401	14.52365	16.84015	385	0.55	-2.43	-3.77	-7.33
386	11.33445	13.23986	15.53903	386	0.64	-2.32	-3.67	-7.31
387	10.26421	11.90541	14.21933	387	0.98	-2.18	-3.56	-7.28
388	9.294314	10.94257	12.99257	388	0.58	-2.01	-3.45	-7.26
389	8.675585	10.6723	12.32342	389	0.2	-1.81	-3.37	-7.25
390	8.408027	11.09459	12.15613	390	0.66	-1.6	-3.31	-7.24
391	8.341137	11.61824	12.30483	391	0.93	-1.41	-3.27	-7.23
392	8.374582	12.15878	12.60223	392	1.13	-1.21	-3.23	-7.23

393	8.424749	12.66554	12.86245	393	1.31	-1.02	-3.2	-7.22
394	8.591973	13.07095	13.14126	394	1.49	-0.83	-3.16	-7.2
395	8.809365	13.49324	13.55019	395	1.65	-0.66	-3.13	-7.19
396	8.959866	13.78041	13.99628	396	1.81	-0.5	-3.11	-7.17
397	9.060201	14.03378	14.33086	397	1.97	-0.33	-3.07	-7.15
398	9.143813	14.25338	14.60967	398	2.13	-0.18	-3.04	-7.13
399	9.244147	14.33784	14.96283	399	2.28	-0.03	-3.01	-7.11
400	9.327759	14.43919	15.26022	400	2.42	0.11	-2.98	-7.1
401	9.327759	14.55743	15.48327	401	2.55	0.24	-2.96	-7.08
402	9.311037	14.67568	15.68773	402	2.68	0.37	-2.92	-7.06
403	9.394649	14.74324	15.79926	403	2.81	0.5	-2.89	-7.04
404	9.411371	14.77703	15.94796	404	2.91	0.63	-2.86	-7.04
405	9.846154	15.40203	16.67286	405	1.24	0.48	-2.93	-7.1
406	10.89967	16.61824	18.01115	406	0.94	-0.03	-3.28	-7.19
407	12.18729	17.51351	19.16357	407	-0.52	-0.54	-3.53	-7.26
408	13.22408	17.9527	19.83271	408	-0.96	-1.01	-3.7	-7.34
409	13.94314	18.22297	20.24164	409	-0.59	-1.38	-3.85	-7.38
410	14.44482	18.40878	20.52045	410	-0.41	-1.7	-3.97	-7.44
411	14.79599	18.52703	20.63197	411	-0.05	-2.02	-4.07	-7.46
412	15.06355	18.47635	20.76208	412	-0.16	-2.28	-4.11	-7.47
413	15.1806	18.34122	20.81784	413	-0.17	-2.5	-4.13	-7.48
414	15.16388	18.18919	20.78067	414	-0.29	-2.65	-4.12	-7.49
415	15.13043	17.88514	20.66914	415	-0.31	-2.75	-4.09	-7.46
416	14.94649	17.49662	20.40892	416	-0.22	-2.79	-4.04	-7.44
417	14.59532	16.95608	19.92565	417	-0.09	-2.77	-3.97	-7.4
418	14.09365	16.22973	19.18216	418	0.05	-2.71	-3.89	-7.4
419	13.34114	15.36824	18.17844	419	0.16	-2.61	-3.8	-7.37
420	12.48829	14.28716	16.97026	420	0.46	-2.5	-3.71	-7.36
421	11.45151	12.93581	15.52045	421	0.86	-2.36	-3.6	-7.35
422	10.3311	11.97297	14.10781	422	0.76	-2.16	-3.49	-7.35
423	9.67893	11.71959	13.27138	423	0.59	-1.98	-3.43	-7.36
424	9.411371	11.95608	13.02974	424	0.68	-1.75	-3.36	-7.34
425	9.26087	12.44595	13.21561	425	0.88	-1.54	-3.29	-7.33
426	9.244147	12.90203	13.47584	426	1.08	-1.34	-3.24	-7.32
427	9.26087	13.29054	13.84758	427	1.27	-1.14	-3.2	-7.3
428	9.327759	13.67905	14.27509	428	1.45	-0.96	-3.17	-7.29
429	9.411371	14.03378	14.68401	429	1.62	-0.78	-3.14	-7.27
430	9.511706	14.32095	15.07435	430	1.78	-0.61	-3.11	-7.26
431	9.595318	14.52365	15.42751	431	1.94	-0.44	-3.08	-7.25
432	9.695652	14.67568	15.70632	432	2.1	-0.27	-3.04	-7.24
433	9.795987	14.86149	15.92937	433	2.25	-0.11	-3	-7.2
434	9.829431	15.01351	16.0223	434	2.39	0.03	-2.97	-7.18
435	9.896321	15.06419	16.18959	435	2.53	0.17	-2.93	-7.17
436	9.913043	15.08108	16.41264	436	2.66	0.31	-2.9	-7.15
437	9.896321	15.14865	16.48699	437	2.78	0.43	-2.87	-7.15

438	9.846154	15.11486	16.54275	438	2.89	0.56	-2.85	-7.16
439	9.862876	15.16554	16.69145	439	2.99	0.68	-2.82	-7.16
440	9.879599	15.21622	16.82156	440	3.09	0.79	-2.8	-7.14
441	9.862876	15.26689	16.87732	441	3.19	0.9	-2.77	-7.13
442	9.812709	15.26689	16.9145	442	3.3	1.02	-2.74	-7.12

Adsorp_exp_13

Experiment type: Adsorption experiment. The regolith type is JSC Mars-1 in this experiment, with a thickness of 2 mm. The initial weight was 75.87 g. The humidity buffer was LiCl which has a RH of 11.31 at 0 degrees Celsius. Temperature around the sample was as close to -27 degrees Celsius as possible, cooled with liquid nitrogen and chiller system.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= humidity buffer 3= atmosphere 4= sample

Mass		RH				T				
Min.	Mass	Min.	Ch02	Ch03	Ch04	Min.	Ch01	Ch02	Ch03	Ch04
0	81.71	0	11.44147	31.59122	6.022305	0	-10.64	-17.72	-15.35	-15.63
2	81.17	1	12.91304	35.13851	6.486989	1	-14.23	-20.97	-15.56	-15.44
4	81.05	2	14.28428	38.63514	7.026022	2	-14.1	-20.33	-15.77	-15.14
6	81.04	3	15.30435	38.80405	9.01487	3	-15.7	-21.31	-17.43	-15.24
8	81.08	4	15.87291	35.20608	12.97398	4	-16.15	-22.63	-19.18	-15.34
10	81.11	5	16.47492	29.98649	17.00743	5	-15.4	-23.28	-19.53	-15.43
12	81.14	6	17.24415	24.58108	20.83643	6	-14.2	-23.75	-18.63	-15.47
14	81.16	7	17.8796	19.42905	24.01487	7	-13.7	-24.01	-17.96	-15.39
16	81.18	8	17.84615	14.98649	25.18587	8	-13.98	-24.16	-17.74	-15.23
18	81.2	9	16.62542	11.33784	25.18587	9	-14.05	-24.3	-17.44	-15.08
20	81.22	10	14.53512	8.212838	25.18587	10	-14	-24.48	-17.2	-14.93
22	81.23	11	11.87625	5.307432	25.18587	11	-13.98	-24.7	-17.02	-14.84
24	81.27	12	9.267559	2.824324	25.18587	12	-13.98	-24.94	-16.88	-14.76
26	81.25	13	6.842809	0.64527	25.18587	13	-14	-25.17	-16.78	-14.72
28	81.26	14	4.401338	1.297297	25.18587	14	-14.02	-25.4	-16.71	-14.68
30	81.26	15	2.411371	2.885135	25.18587	15	-14.04	-25.62	-16.65	-14.65
32	81.25	16	0.722408	4.253378	25.18587	16	-14.08	-25.85	-16.61	-14.63
34	81.26	17	0.765886	5.402027	25.18587	17	-14.14	-26.06	-16.59	-14.6
36	81.28	18	2.020067	6.415541	25.18587	18	-14.11	-26.26	-16.54	-14.58
38	81.33	19	3.123746	7.361486	25.18587	19	-14.09	-26.43	-16.44	-14.54
40	81.39	20	4.110368	8.155405	25.18587	20	-14.14	-26.59	-16.36	-14.51

42	81.36	21	4.929766	8.797297	25.18587	21	-14.21	-26.69	-16.27	-14.49
44	81.31	22	5.51505	9.388514	25.18587	22	-14.13	-26.73	-16.2	-14.46
46	81.31	23	6.050167	9.912162	25.18587	23	-13.76	-26.72	-16.15	-14.42
48	81.31	24	6.551839	10.33446	25.18587	24	-13.8	-26.77	-16.14	-14.38
50	81.3	25	6.986622	10.73986	25.18587	25	-14.25	-26.95	-16.26	-14.37
52	81.32	26	7.404682	11.28041	25.18587	26	-14.34	-27.12	-16.4	-14.36
54	81.35	27	7.906355	11.78716	25.18587	27	-14.4	-27.27	-16.52	-14.36
56	81.35	28	8.35786	12.27703	25.18587	28	-14.46	-27.41	-16.63	-14.35
58	81.32	29	8.742475	12.73311	25.1487	29	-14.51	-27.53	-16.73	-14.37
60	81.3	30	9.143813	13.08784	25.1487	30	-14.58	-27.64	-16.83	-14.4
62	81.32	31	9.511706	13.52703	25.11152	31	-14.6	-27.75	-16.9	-14.42
64	81.32	32	9.862876	13.93243	25.11152	32	-14.54	-27.83	-16.89	-14.43
66	81.32	33	10.11371	14.27027	25.11152	33	-14.52	-27.91	-16.85	-14.44
68	81.33	34	10.31438	14.57432	25.11152	34	-14.43	-27.94	-16.78	-14.43
70	81.37	35	10.46488	14.8277	25.1487	35	-14.35	-27.93	-16.69	-14.43
72	81.37	36	10.61538	15.01351	25.1487	36	-14.07	-27.88	-16.61	-14.42
74	81.34	37	10.699	15.09797	25.18587	37	-13.16	-27.74	-16.58	-14.42
76	81.34	38	10.699	15.13176	25.18587	38	-12.09	-27.51	-16.62	-14.42
78	81.31	39	10.83278	15.28378	25.18587	39	-11.64	-27.25	-16.74	-14.45
80	81.3	40	11.03344	15.6723	25.18587	40	-11.31	-26.99	-16.88	-14.48
82	81.31	41	11.18395	16.01014	25.18587	41	-11.23	-26.72	-16.97	-14.49
84	81.31	42	11.301	16.21284	25.18587	42	-12.89	-26.69	-16.89	-14.47
86	81.31	43	11.40134	16.5	25.18587	43	-13.71	-26.91	-16.92	-14.45
88	81.32	44	11.50167	16.73649	25.18587	44	-13.93	-27.11	-16.92	-14.44
90	81.33	45	11.58528	16.90541	25.18587	45	-14.09	-27.31	-16.92	-14.43
92	81.36	46	11.63545	17.09122	25.18587	46	-14.16	-27.5	-16.9	-14.41
94	81.34	47	11.70234	17.125	25.18587	47	-14.18	-27.65	-16.87	-14.39
96	81.32	48	11.73579	17.15878	25.18587	48	-14.15	-27.75	-16.84	-14.37
98	81.31	49	11.71906	17.10811	25.16729	49	-14.05	-27.81	-16.84	-14.35
100	81.29	50	11.75251	17.125	25.18587	50	-13.85	-27.8	-16.82	-14.35
102	81.29	51	11.78595	17.15878	25.18587	51	-13.38	-27.73	-16.81	-14.35
104	81.29	52	11.8194	17.15878	25.18587	52	-12.11	-27.56	-16.83	-14.34
106	81.29	53	11.8194	17.15878	25.18587	53	-11.18	-27.35	-16.94	-14.37
108	81.3	54	11.80268	17.29392	25.18587	54	-11.08	-27.12	-17.02	-14.4
110	81.3	55	11.95318	17.42905	25.18587	55	-11.4	-26.85	-16.95	-14.41
112	81.31	56	12.17057	17.58108	25.18587	56	-11.77	-26.54	-16.88	-14.39
114	81.33	57	12.35452	17.73311	25.18587	57	-12.02	-26.33	-16.93	-14.38
116	81.31	58	12.47157	17.85135	25.18587	58	-13.16	-26.46	-17.4	-14.4
118	81.29	59	12.57191	18.02027	25.18587	59	-13.66	-26.65	-17.67	-14.42
120	81.3	60	12.62207	18.08784	25.20446	60	-13.84	-26.87	-17.64	-14.42
122	81.28	61	12.67224	18.10473	25.18587	61	-13.95	-27.1	-17.52	-14.4
124	81.28	62	12.67224	18.12162	25.18587	62	-14.09	-27.33	-17.43	-14.39
126	81.28	63	12.67224	18.18919	25.18587	63	-14.23	-27.56	-17.38	-14.39
128	81.28	64	12.6388	18.15541	25.16729	64	-14.27	-27.76	-17.32	-14.37
130	81.28	65	12.60535	18.22297	25.1487	65	-14.33	-27.93	-17.26	-14.35

132	81.28	66	12.6388	18.22297	25.1487	66	-14.4	-28.05	-17.19	-14.34
134	81.3	67	12.57191	18.18919	25.1487	67	-14.36	-28.12	-17.13	-14.33
136	81.29	68	12.50502	18.18919	25.1487	68	-14.2	-28.14	-17.08	-14.32
138	81.28	69	12.4214	18.1723	25.18587	69	-13.63	-28.07	-17.03	-14.31
140	81.29	70	12.37124	18.18919	25.18587	70	-12.38	-27.9	-17.03	-14.31
142	81.27	71	12.30435	18.22297	25.18587	71	-11.39	-27.68	-17.09	-14.32
144	81.27	72	12.37124	18.29054	25.18587	72	-11.34	-27.48	-17.17	-14.35
146	81.28	73	12.48829	18.34122	25.18587	73	-11.81	-27.21	-17.15	-14.35
148	81.28	74	12.65552	18.40878	25.18587	74	-11.81	-26.91	-17.11	-14.34
150	81.28	75	12.95652	18.49324	25.18587	75	-11.56	-26.58	-17.09	-14.34
152	81.29	76	13.22408	18.52703	25.18587	76	-11.28	-26.21	-17.06	-14.32
154	81.3	77	13.42475	18.5777	25.18587	77	-12.1	-25.98	-17.15	-14.34
156	81.29	78	13.54181	18.56081	25.18587	78	-13.63	-26.16	-17.85	-14.41
158	81.27	79	13.69231	18.64527	25.18587	79	-13.29	-26.31	-18.32	-14.43
160	81.3	80	13.80936	18.64527	25.18587	80	-13.59	-26.53	-18.38	-14.43
162	81.27	81	13.85953	18.61149	25.18587	81	-13.72	-26.79	-18.22	-14.4
164	81.27	82	13.82609	18.61149	25.18587	82	-13.85	-27.05	-18.04	-14.36
166	81.28	83	13.72575	18.67905	25.18587	83	-13.99	-27.31	-17.93	-14.33
168	81.28	84	13.67559	18.66216	25.18587	84	-14.14	-27.56	-17.85	-14.3
170	81.28	85	13.6087	18.64527	25.18587	85	-14.18	-27.79	-17.77	-14.27
172	81.28	86	13.50836	18.61149	25.1487	86	-14.24	-27.98	-17.68	-14.25
174	81.3	87	13.42475	18.61149	25.1487	87	-14.34	-28.13	-17.59	-14.26
176	81.29	88	13.35786	18.69595	25.1487	88	-14.28	-28.21	-17.51	-14.27
178	81.28	89	13.19064	18.62838	25.16729	89	-14.05	-28.22	-17.45	-14.27
180	81.27	90	13.02341	18.59459	25.18587	90	-13.45	-28.16	-17.4	-14.28
182	81.29	91	12.98997	18.54392	25.18587	91	-12.18	-28.01	-17.42	-14.28
184	81.27	92	12.9398	18.56081	25.18587	92	-11.41	-27.83	-17.52	-14.31
186	81.27	93	12.97324	18.61149	25.18587	93	-11.48	-27.62	-17.6	-14.34
188	81.27	94	13.14047	18.64527	25.18587	94	-11.72	-27.38	-17.59	-14.35
190	81.28	95	13.35786	18.69595	25.18587	95	-11.48	-27.1	-17.55	-14.34
192	81.27	96	13.6087	18.74662	25.18587	96	-11.14	-26.76	-17.49	-14.33
194	81.29	97	13.85953	18.86486	25.18587	97	-11.76	-26.37	-17.42	-14.29
196	81.29	98	14.01003	18.86486	25.18587	98	-12.47	-25.96	-17.33	-14.25
198	81.27	99	14.11037	18.89865	25.18587	99	-13.25	-26.1	-17.75	-14.3
200	81.27	100	14.27759	18.88176	25.18587	100	-13.68	-26.26	-18.68	-14.43
202	81.3	101	14.3612	18.86486	25.18587	101	-13.34	-26.41	-19.03	-14.52
204	81.28	102	14.41137	18.88176	25.18587	102	-13.29	-26.6	-19.02	-14.53
206	81.27	103	14.42809	18.93243	25.18587	103	-13.6	-26.83	-18.88	-14.5
208	81.27	104	14.34448	18.89865	25.20446	104	-13.74	-27.08	-18.72	-14.46
210	81.27	105	14.26087	18.89865	25.20446	105	-13.87	-27.31	-18.58	-14.41
212	81.27	106	14.2107	18.86486	25.18587	106	-13.97	-27.54	-18.48	-14.37
214	81.29	107	14.07692	18.86486	25.18587	107	-13.94	-27.75	-18.35	-14.36
216	81.28	108	13.94314	18.86486	25.1487	108	-14.01	-27.92	-18.22	-14.32
218	81.27	109	13.9097	18.86486	25.1487	109	-14.02	-28.04	-18.1	-14.29
220	81.27	110	13.9097	18.89865	25.1487	110	-13.89	-28.12	-18.01	-14.29

222	81.28	111	13.79264	18.84797	25.18587	111	-13.71	-28.12	-17.94	-14.26
224	81.27	112	13.6087	18.83108	25.18587	112	-12.85	-28.04	-17.92	-14.25
226	81.27	113	13.57525	18.84797	25.18587	113	-11.77	-27.9	-18.01	-14.27
228	81.27	114	13.6087	18.86486	25.18587	114	-10.77	-27.73	-18.11	-14.29
230	81.28	115	13.67559	18.86486	25.18587	115	-10.46	-27.51	-18.09	-14.29
232	81.28	116	13.74247	18.93243	25.18587	116	-10.63	-27.21	-18.04	-14.23
234	81.27	117	14.02676	18.98311	25.18587	117	-12.45	-26.88	-17.93	-14.17
236	81.26	118	14.24415	18.96622	25.18587	118	-13.8	-26.53	-17.71	-14.1
238	81.29	119	14.42809	18.89865	25.18587	119	-13.94	-26.08	-17.61	-14.06
240	81.28	120	14.5786	18.91554	25.18587	120	-13.29	-26.61	-18.27	-14.12
242	81.27	121	14.67893	18.98311	25.18587	121	-13.53	-26.83	-19.01	-14.27
244	81.27	122	14.79599	18.93243	25.18587	122	-13.43	-26.85	-19.48	-14.38
246	81.27	123	14.92977	18.96622	25.20446	123	-13.07	-26.97	-19.6	-14.43
248	81.27	124	15.0301	19.03378	25.20446	124	-13.36	-27.14	-19.53	-14.44
250	81.28	125	14.94649	18.98311	25.20446	125	-13.64	-27.32	-19.42	-14.43
252	81.28	126	14.8796	19.01689	25.18587	126	-13.89	-27.51	-19.32	-14.43
254	81.27	127	14.84615	19.08446	25.18587	127	-13.92	-27.7	-19.18	-14.44
256	81.28	128	14.7291	19.05068	25.18587	128	-13.98	-27.86	-18.97	-14.43
258	81.28	129	14.71237	18.98311	25.18587	129	-14.11	-27.99	-18.78	-14.4
260	81.27	130	14.56187	19.03378	25.18587	130	-14.12	-28.07	-18.63	-14.37
262	81.27	131	14.46154	19	25.18587	131	-13.9	-28.11	-18.53	-14.36
264	81.27	132	14.34448	19.08446	25.18587	132	-13.27	-28.08	-18.48	-14.35
266	81.28	133	14.27759	19.10135	25.18587	133	-11.88	-27.99	-18.52	-14.37
268	81.27	134	14.24415	19.10135	25.18587	134	-11.39	-27.9	-18.59	-14.4
270	81.27	135	14.19398	19.10135	25.18587	135	-10.88	-27.69	-18.52	-14.38
272	81.29	136	14.31104	19.11824	25.18587	136	-11.5	-27.4	-18.44	-14.33
274	81.27	137	14.46154	19.13514	25.18587	137	-13.01	-27.13	-18.27	-14.26
276	81.27	138	14.5786	19.16892	25.18587	138	-13.26	-26.49	-17.98	-14.19
278	81.27	139	14.76254	19.13514	25.18587	139	-13.42	-25.93	-17.66	-14.14
280	81.27	140	14.91304	19.10135	25.18587	140	-12.09	-26.47	-18.13	-14.15
282	81.28	141	15.04682	19.05068	25.18587	141	-13.99	-26.72	-19.18	-14.3
284	81.27	142	15.08027	19.10135	25.18587	142	-13.96	-26.8	-19.71	-14.42
286	81.28	143	15.21405	19.11824	25.18587	143	-13.75	-26.95	-19.8	-14.48
288	81.28	144	15.26421	19.11824	25.20446	144	-13.77	-27.12	-19.72	-14.48
290	81.27	145	15.21405	19.15203	25.20446	145	-13.96	-27.33	-19.62	-14.47
292	81.27	146	15.19732	19.21959	25.20446	146	-14.08	-27.54	-19.51	-14.47
294	81.27	147	15.09699	19.13514	25.20446	147	-14.07	-27.75	-19.32	-14.45
296	81.28	148	15.01338	19.10135	25.18587	148	-14.15	-27.92	-19.07	-14.41
298	81.27	149	14.84615	19.10135	25.18587	149	-14.25	-28.05	-18.88	-14.38
300	81.27	150	14.76254	19.10135	25.18587	150	-14.22	-28.13	-18.74	-14.35
302	81.19	151	14.64548	19.05068	25.18587	151	-13.94	-28.17	-18.64	-14.34
304	81.27	152	14.49498	19.13514	25.18587	152	-12.92	-28.13	-18.63	-14.37
306	81.27	153	14.42809	19.15203	25.18587	153	-11.18	-28.07	-18.69	-14.43
308	81.27	154	14.41137	19.21959	25.18587	154	-11.66	-27.93	-18.68	-14.47
310	81.27	155	14.52843	19.23649	25.18587	155	-11.16	-27.7	-18.69	-14.46

312	81.11	156	14.61204	19.27027	25.18587	156	-10.52	-27.45	-18.56	-14.42
314	81.1	157	14.69565	19.23649	25.18587	157	-12.07	-27.18	-18.28	-14.35
316	81.3	158	14.81271	19.32095	25.18587	158	-13.77	-26.63	-18.16	-14.28
318	81.27	159	14.92977	19.32095	25.18587	159	-14.08	-25.88	-17.94	-14.23
320	81.27	160	14.96321	19.23649	25.18587	160	-12.72	-26.08	-18.05	-14.21
		161	15.08027	19.18581	25.18587	161	-13.99	-26.6	-19.17	-14.35
		162	15.21405	19.18581	25.18587	162	-14.21	-26.69	-19.91	-14.51
		163	15.34783	19.18581	25.18587	163	-13.85	-26.83	-20.08	-14.59
		164	15.39799	19.18581	25.20446	164	-13.42	-27.02	-20	-14.61
		165	15.31438	19.2027	25.18587	165	-13.78	-27.23	-19.84	-14.57
		166	15.31438	19.2027	25.20446	166	-14.01	-27.46	-19.69	-14.51
		167	15.31438	19.21959	25.20446	167	-14.18	-27.69	-19.55	-14.48
		168	15.28094	19.18581	25.18587	168	-14.2	-27.89	-19.34	-14.44
		169	15.08027	19.28716	25.20446	169	-14.31	-28.07	-19.14	-14.41
		170	14.92977	19.28716	25.18587	170	-14.36	-28.18	-18.98	-14.37
		171	14.79599	19.23649	25.18587	171	-14.29	-28.26	-18.86	-14.36
		172	14.69565	19.2027	25.18587	172	-13.78	-28.28	-18.79	-14.36
		173	14.61204	19.15203	25.18587	173	-12.39	-28.23	-18.81	-14.38
		174	14.52843	19.2027	25.18587	174	-10.71	-28.14	-18.87	-14.42
		175	14.54515	19.28716	25.18587	175	-11.03	-27.98	-18.85	-14.42
		176	14.64548	19.33784	25.18587	176	-12.34	-27.72	-18.79	-14.36
		177	14.71237	19.35473	25.18587	177	-12.84	-27.47	-18.55	-14.27
		178	14.79599	19.4223	25.18587	178	-13.43	-27.12	-18.31	-14.18
		179	14.8796	19.33784	25.18587	179	-13.46	-26.76	-18.25	-14.12
		180	15.0301	19.30405	25.18587	180	-12.73	-26.28	-18.31	-14.06
		181	15.21405	19.32095	25.18587	181	-13.77	-25.93	-18.29	-14.02
		182	15.31438	19.25338	25.18587	182	-13.25	-26.49	-18.85	-14.07
		183	15.43144	19.16892	25.18587	183	-13.88	-27.01	-19.65	-14.25
		184	15.51505	19.2027	25.18587	184	-13.97	-26.97	-20.19	-14.41
		185	15.58194	19.18581	25.18587	185	-13.51	-27.09	-20.38	-14.49
		186	15.61538	19.18581	25.18587	186	-13.67	-27.28	-20.32	-14.53
		187	15.53177	19.2027	25.18587	187	-13.57	-27.47	-20.2	-14.53
		188	15.39799	19.2027	25.20446	188	-14.08	-27.65	-20.01	-14.5
		189	15.29766	19.23649	25.18587	189	-14.2	-27.83	-19.74	-14.47
		190	15.24749	19.28716	25.18587	190	-14.31	-27.99	-19.51	-14.45
		191	15.21405	19.25338	25.18587	191	-14.44	-28.1	-19.31	-14.43
		192	15.09699	19.25338	25.18587	192	-14.2	-28.17	-19.18	-14.42
		193	15.0301	19.2027	25.18587	193	-13.32	-28.17	-19.13	-14.42
		194	14.89632	19.21959	25.18587	194	-11.39	-28.14	-19.16	-14.43
		195	14.8796	19.32095	25.18587	195	-11.32	-28.02	-19.16	-14.45
		196	14.92977	19.28716	25.18587	196	-11.68	-27.84	-19.17	-14.44
		197	14.92977	19.40541	25.18587	197	-12.35	-27.65	-19.06	-14.38
		198	15.0301	19.38851	25.18587	198	-12.18	-27.33	-18.76	-14.31
		199	15.09699	19.38851	25.18587	199	-12.64	-26.96	-18.67	-14.27
		200	15.21405	19.38851	25.18587	200	-14.24	-26.43	-18.61	-14.23

201	15.34783	19.35473	25.18587	201	-14.59	-26.04	-18.46	-14.18
202	15.39799	19.30405	25.18587	202	-14.33	-25.87	-18.54	-14.18
203	15.48161	19.21959	25.18587	203	-14.24	-26.91	-19.42	-14.3
204	15.61538	19.18581	25.18587	204	-13.9	-26.93	-20.12	-14.5
205	15.73244	19.18581	25.18587	205	-14.08	-27.04	-20.45	-14.64
206	15.699	19.2027	25.18587	206	-14.36	-27.23	-20.45	-14.69
207	15.71572	19.2027	25.20446	207	-13.81	-27.36	-20.39	-14.7
208	15.68227	19.21959	25.18587	208	-14.19	-27.55	-20.22	-14.67
209	15.61538	19.25338	25.18587	209	-14.46	-27.74	-19.91	-14.62
210	15.46488	19.27027	25.18587	210	-14.4	-27.88	-19.65	-14.55
211	15.36455	19.28716	25.18587	211	-14.27	-27.99	-19.48	-14.51
212	15.26421	19.27027	25.18587	212	-13.93	-28.03	-19.37	-14.49
213	15.23077	19.30405	25.18587	213	-12.2	-28	-19.34	-14.49
214	15.14716	19.37162	25.18587	214	-10.46	-27.96	-19.3	-14.48
215	15.13043	19.4223	25.18587	215	-10.19	-27.79	-19.23	-14.43
216	15.09699	19.40541	25.18587	216	-10.4	-27.62	-18.97	-14.35
217	15.16388	19.38851	25.18587	217	-11.31	-27.34	-18.87	-14.26
218	15.24749	19.33784	25.18587	218	-13	-26.85	-18.73	-14.2
219	15.41472	19.33784	25.18587	219	-14.26	-26.27	-18.56	-14.14
220	15.56522	19.33784	25.18587	220	-14.36	-25.97	-18.46	-14.09
221	15.71572	19.40541	25.18587	221	-14.2	-26.13	-18.84	-14.09
222	15.8495	19.33784	25.18587	222	-13.52	-27.13	-19.59	-14.2
223	15.89967	19.28716	25.18587	223	-12.91	-27.34	-20.05	-14.38
224	15.94983	19.33784	25.18587	224	-13.61	-27.39	-20.32	-14.51
225	15.89967	19.35473	25.18587	225	-13.62	-27.47	-20.32	-14.56
226	15.88294	19.37162	25.18587	226	-13.47	-27.61	-20.08	-14.56
227	15.8495	19.37162	25.18587	227	-13.62	-27.75	-19.83	-14.54
228	15.81605	19.35473	25.18587	228	-14.79	-27.91	-19.67	-14.51
229	15.66555	19.37162	25.18587	229	-13.19	-27.93	-19.52	-14.51
230	15.51505	19.38851	25.18587	230	-11.19	-27.89	-19.44	-14.49
231	15.49833	19.43919	25.18587	231	-10.44	-27.77	-19.43	-14.45
232	15.49833	19.4223	25.18587	232	-11.43	-27.65	-19.1	-14.36
233	15.39799	19.37162	25.18587	233	-12.65	-27.33	-19	-14.28
234	15.46488	19.40541	25.18587	234	-13.61	-26.88	-18.9	-14.22
235	15.61538	19.4223	25.18587	235	-14.81	-26.19	-18.74	-14.17
236	15.76589	19.40541	25.18587	236	-14.77	-25.8	-18.55	-14.11
237	15.81605	19.4223	25.18587	237	-14.83	-25.48	-18.43	-14.06
238	15.88294	19.35473	25.18587	238	-14.95	-25.69	-18.93	-14.09
239	15.94983	19.30405	25.18587	239	-14.46	-26.65	-19.83	-14.17
240	16.01672	19.28716	25.18587	240	-14.2	-27.05	-20.36	-14.34
241	16.03344	19.30405	25.18587	241	-14.16	-27.16	-20.65	-14.51
242	16	19.35473	25.18587	242	-13.96	-27.32	-20.69	-14.6
243	16.05017	19.38851	25.18587	243	-14.08	-27.47	-20.67	-14.63
244	16.05017	19.40541	25.18587	244	-14	-27.62	-20.6	-14.63
245	15.96656	19.40541	25.20446	245	-14.4	-27.77	-20.43	-14.61

246	15.91639	19.4223	25.20446	246	-14.89	-27.96	-20.22	-14.58
247	15.81605	19.37162	25.18587	247	-15.45	-28.14	-20.03	-14.55
248	15.66555	19.4223	25.18587	248	-15.2	-28.21	-19.89	-14.52
249	15.53177	19.45608	25.18587	249	-12.34	-28.21	-19.77	-14.52
250	15.41472	19.45608	25.18587	250	-11.01	-28.19	-19.73	-14.51
251	15.31438	19.48986	25.18587	251	-10.97	-28.02	-19.67	-14.45
252	15.29766	19.45608	25.18587	252	-12.96	-27.7	-19.33	-14.37
253	15.3311	19.47297	25.18587	253	-12.46	-27.38	-19.12	-14.31
254	15.43144	19.47297	25.18587	254	-14.05	-26.79	-19	-14.24
255	15.61538	19.45608	25.18587	255	-14.91	-26.31	-18.92	-14.18
256	15.76589	19.47297	25.18587	256	-14.75	-25.88	-18.87	-14.14
257	15.86622	19.47297	25.18587	257	-15.24	-26.45	-19.43	-14.16
258	15.93311	19.45608	25.18587	258	-13.58	-27.23	-20.31	-14.25
259	15.93311	19.43919	25.18587	259	-14.77	-27.58	-20.67	-14.42
260	15.93311	19.4223	25.20446	260	-14.49	-27.57	-20.76	-14.56
261	15.91639	19.40541	25.20446	261	-13.56	-27.71	-20.66	-14.61
262	15.89967	19.38851	25.20446	262	-14.11	-27.85	-20.41	-14.6
263	15.89967	19.35473	25.20446	263	-14.57	-27.98	-20.16	-14.59
264	15.91639	19.38851	25.18587	264	-13.89	-28.01	-20	-14.55
265	15.8495	19.43919	25.18587	265	-14.05	-27.97	-19.93	-14.52
266	15.699	19.47297	25.18587	266	-14.19	-27.73	-19.92	-14.47
267	15.49833	19.48986	25.18587	267	-13.51	-27.41	-19.66	-14.38
268	15.48161	19.48986	25.18587	268	-12.17	-27.24	-19.36	-14.29
269	15.56522	19.50676	25.18587	269	-12.93	-26.83	-19.2	-14.21
270	15.699	19.54054	25.18587	270	-13.87	-26.23	-19.04	-14.17
271	15.78261	19.57432	25.18587	271	-13.86	-25.98	-18.89	-14.13
272	15.86622	19.52365	25.18587	272	-15.04	-26.39	-19.47	-14.16
273	15.94983	19.48986	25.18587	273	-13.7	-26.94	-20.5	-14.25
274	16	19.47297	25.18587	274	-15.05	-27.36	-21.02	-14.4
275	15.98328	19.50676	25.18587	275	-14.61	-27.42	-21.11	-14.56
276	15.96656	19.48986	25.18587	276	-14.62	-27.58	-20.87	-14.61
277	15.98328	19.45608	25.18587	277	-14.86	-27.75	-20.53	-14.61
278	15.93311	19.4223	25.18587	278	-15.12	-27.85	-20.23	-14.59
279	15.88294	19.4223	25.18587	279	-16.66	-28.04	-19.83	-14.59
280	15.66555	19.52365	25.18587	280	-14.13	-28.05	-19.52	-14.59
281	15.48161	19.45608	25.18587	281	-12.55	-27.61	-19.56	-14.54
282	15.36455	19.52365	25.18587	282	-11.47	-27.56	-19.27	-14.43
283	15.3311	19.57432	25.18587	283	-13.4	-27.37	-19.16	-14.34
284	15.41472	19.57432	25.18587	284	-12.96	-26.97	-19.14	-14.26
285	15.53177	19.59122	25.18587	285	-13.74	-26.35	-19	-14.21
286	15.64883	19.60811	25.18587	286	-13.77	-26.15	-18.88	-14.16
287	15.76589	19.54054	25.18587	287	-15	-26.57	-19.37	-14.18
288	15.86622	19.48986	25.18587	288	-14.18	-27.05	-20.42	-14.28
289	15.89967	19.50676	25.18587	289	-14.62	-27.43	-21.09	-14.44
290	15.93311	19.47297	25.18587	290	-14.54	-27.48	-21.14	-14.56

291	15.93311	19.48986	25.18587	291	-15.16	-27.57	-20.81	-14.61
292	15.94983	19.45608	25.20446	292	-15.08	-27.73	-20.49	-14.6
293	15.91639	19.48986	25.18587	293	-15.6	-27.84	-20.33	-14.57
294	15.8495	19.52365	25.20446	294	-16.17	-27.93	-20.02	-14.53
295	15.699	19.54054	25.18587	295	-15.72	-27.7	-19.68	-14.47
296	15.51505	19.55743	25.18587	296	-15.42	-27.66	-19.44	-14.39
297	15.39799	19.52365	25.18587	297	-14.45	-27.52	-19.24	-14.36
298	15.39799	19.54054	25.18587	298	-13.71	-27.26	-19.28	-14.32
299	15.44816	19.59122	25.18587	299	-14.23	-26.59	-19.2	-14.25
300	15.54849	19.54054	25.18587	300	-14.02	-26.19	-19.01	-14.19
301	15.68227	19.57432	25.18587	301	-15.88	-26.44	-19.29	-14.19
302	15.76589	19.52365	25.18587	302	-15.57	-26.89	-20.3	-14.27
303	15.88294	19.50676	25.18587	303	-14.1	-27.28	-21.03	-14.4
304	15.91639	19.50676	25.18587	304	-12.53	-27.53	-20.92	-14.5
305	15.89967	19.47297	25.18587	305	-14.3	-27.71	-20.66	-14.55
306	15.93311	19.47297	25.18587	306	-14.84	-27.81	-20.19	-14.56
307	15.96656	19.50676	25.18587	307	-13.94	-27.87	-20	-14.57
308	15.93311	19.52365	25.18587	308	-14.2	-27.86	-19.76	-14.56
309	15.83278	19.52365	25.18587	309	-14.84	-27.5	-19.69	-14.51
310	15.66555	19.55743	25.18587	310	-14.2	-27.22	-19.47	-14.41
311	15.58194	19.54054	25.18587	311	-14.76	-27.06	-19.33	-14.34
312	15.64883	19.55743	25.18587	312	-13.08	-26.9	-19.31	-14.28
313	15.74916	19.625	25.18587	313	-12.82	-26.35	-19.14	-14.23
314	15.8495	19.57432	25.18587	314	-13.97	-25.77	-18.92	-14.19
315	15.91639	19.55743	25.18587	315	-14.42	-25.37	-18.79	-14.15
316	16	19.52365	25.18587	316	-14.2	-24.85	-18.62	-14.1
317	16.10033	19.55743	25.18587	317	-14.15	-24.38	-18.37	-14.07
318	16.18395	19.45608	24.57249	318	-13.82	-23.87	-18.11	-14.02
319	16.20067	19.37162	22.82528	319	-13.5	-23.53	-17.85	-13.95

Adsorp_exp_14

Experiment type: Adsorption experiment. The regolith type is JSC Mars-1 in this experiment, with a thickness of 2 mm. The initial weight was 75.87 g. The humidity buffer was LiCl which has a RH of 11.31 at 0 degrees Celsius, cooled with the chiller system.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= humidity buffer 3= atmosphere 4= sample

Mass Min.	Mass	RH Min.	Ch02	Ch03	Ch04	T Min.	Ch01	Ch02	Ch03	Ch04
0	76.34	0	0.665552	2.665541	13.34572	0	4.63	-3.17	-4.66	-8.55
1	75.96	1	0.816054	2.969595	6.840149	1	-5.88	-9.88	-5.67	-11.91
2	75.24	2	1.284281	3.307432	7.899628	2	-7.48	-7.06	-6.06	-12.8
4	75.04	3	1.635452	2.310811	8.605948	3	-3.22	-4.78	-5.94	-11.21
6	75.01	4	1.468227	0.891892	8.698885	4	-1.6	-3.98	-5.82	-10.19
8	75.01	5	1.117057	0.097973	8.494424	5	-0.55	-3.43	-5.72	-9.49
10	75.01	6	0.598662	0.746622	8.122677	6	0.17	-2.97	-5.56	-8.81
12	75.02	7	0.036789	0.679054	7.67658	7	0.61	-2.63	-5.44	-8.36
14	75.02	8	0.521739	1.601351	7.174721	8	0.9	-2.33	-5.37	-7.93
16	75.03	9	0.638796	4.371622	6.914498	9	2.13	-2.07	-5.35	-7.38
18	75.03	10	0.337793	6.280405	7.118959	10	2.52	-1.82	-5.27	-7.14
20	75.04	11	0.247492	7.699324	7.472119	11	2.19	-1.6	-5.2	-6.85
22	75.04	12	0.916388	8.746622	7.881041	12	2.83	-1.41	-5.12	-6.73
24	75.05	13	1.48495	9.523649	8.3829	13	3.18	-1.22	-5.05	-6.94
26	75.05	14	1.953177	10.21622	8.921933	14	3.47	-1.04	-4.99	-7.01
28	75.06	15	2.371237	10.82432	9.36803	15	3.16	-0.83	-4.94	-6.98
30	75.06	16	2.80602	11.2973	9.776952	16	3.07	-0.64	-4.87	-6.92
32	75.06	17	3.207358	11.68581	10.24164	17	2.56	-0.47	-4.83	-6.84
34	75.07	18	3.692308	12.02365	10.66914	18	2.41	-0.32	-4.77	-6.67
36	75.07	19	4.244147	12.34459	11.00372	19	2.47	-0.15	-4.72	-6.48
38	75.07	20	4.662207	12.66554	11.33829	20	2.8	0	-4.65	-6.43
40	75.08	21	4.996656	13.00338	11.69145	21	3.28	0.11	-4.58	-6.58
42	75.08	22	5.247492	13.27365	12.00743	22	3.39	0.24	-4.55	-6.61
44	75.08	23	5.464883	13.52703	12.30483	23	2.61	0.37	-4.51	-6.41
46	75.08	24	5.682274	13.72973	12.60223	24	2.52	0.48	-4.45	-6.33
48	75.08	25	5.966555	13.74662	12.88104	25	2.87	0.58	-4.39	-6.37
50	75.09	26	6.250836	13.86486	13.14126	26	2.65	0.68	-4.35	-6.34
52	75.09	27	6.501672	14.01689	13.34572	27	2.4	0.78	-4.31	-6.08
54	75.09	28	6.752508	14.10135	13.49442	28	2.52	0.88	-4.26	-6.01
56	75.09	29	7.003344	14.16892	13.6803	29	2.49	0.97	-4.22	-5.93
58	75.09	30	7.204013	14.28716	13.90335	30	2.54	1.06	-4.17	-5.87
60	75.1	31	7.38796	14.40541	14.14498	31	2.55	1.14	-4.13	-5.75
62	75.1	32	7.605351	14.48986	14.33086	32	2.57	1.22	-4.1	-5.65
64	75.1	33	7.80602	14.625	14.47955	33	2.61	1.29	-4.07	-5.58
66	75.1	34	7.923077	14.79392	14.59108	34	2.68	1.37	-4.02	-5.5
68	75.1	35	8.090301	14.86149	14.75836	35	2.6	1.45	-3.98	-5.52
70	75.1	36	8.240803	14.94595	14.86989	36	2.56	1.52	-3.95	-5.61
72	75.1	37	8.391304	14.96284	15.01859	37	2.53	1.57	-3.91	-5.58
74	75.11	38	8.558528	14.99662	15.18587	38	2.59	1.63	-3.88	-5.5
76	75.11	39	8.675585	15.0473	15.27881	39	2.62	1.7	-3.84	-5.46
78	75.11	40	8.809365	15.08108	15.40892	40	2.66	1.76	-3.81	-5.49
80	75.11	41	8.876254	15.13176	15.52045	41	2.82	1.82	-3.77	-5.55
82	75.11	42	8.959866	15.23311	15.63197	42	2.8	1.87	-3.74	-5.45

84	75.11	43	9.060201	15.30068	15.66914	43	3.25	1.92	-3.71	-5.29
86	75.11	44	9.227425	15.31757	15.70632	44	2.97	1.96	-3.69	-5.16
88	75.11	45	9.344482	15.30068	15.79926	45	2.94	2	-3.67	-5.11
90	75.12	46	9.494983	15.38514	15.85502	46	3.02	2.05	-3.63	-4.98
92	75.12	47	9.595318	15.43581	15.87361	47	2.92	2.09	-3.6	-4.82
94	75.12	48	9.729097	15.48649	15.94796	48	2.9	2.13	-3.58	-4.74
96	75.12	49	9.862876	15.46959	16.04089	49	2.9	2.16	-3.56	-4.73
98	75.12	50	9.963211	15.50338	16.04089	50	2.93	2.21	-3.53	-4.73
100	75.12	51	10.04682	15.55405	16.11524	51	3.01	2.25	-3.51	-4.81
102	75.12	52	10.13043	15.62162	16.22677	52	3.73	2.31	-3.46	-5.14
104	75.12	53	10.1806	15.62162	16.33829	53	4.59	2.33	-3.44	-5.43
106	75.13	54	10.1806	15.63851	16.37546	54	4.7	2.36	-3.41	-5.58
108	75.13	55	10.1806	15.70608	16.43123	55	4.54	2.4	-3.38	-5.64
110	75.13	56	10.16388	15.70608	16.54275	56	4.44	2.44	-3.35	-5.67
112	75.13	57	10.24749	15.70608	16.63569	57	4.16	2.48	-3.33	-5.68
114	75.13	58	10.31438	15.79054	16.69145	58	4.08	2.51	-3.31	-5.69
116	75.13	59	10.38127	15.80743	16.72862	59	3.82	2.55	-3.28	-5.65
118	75.13	60	10.46488	15.80743	16.84015	60	3.71	2.58	-3.26	-5.58
120	75.14	61	10.54849	15.79054	16.95167	61	3.91	2.63	-3.24	-5.62
122	75.14	62	10.63211	15.80743	17.02602	62	3.67	2.66	-3.22	-5.56
124	75.14	63	10.61538	15.79054	17.02602	63	3.71	2.69	-3.2	-5.54
126	75.14	64	10.64883	15.79054	17.08178	64	3.61	2.74	-3.17	-5.5
128	75.14	65	10.699	15.79054	17.15613	65	3.92	2.77	-3.15	-5.49
130	75.14	66	10.79933	15.82432	17.19331	66	4.06	2.81	-3.13	-5.46
132	75.14	67	10.89967	15.84122	17.24907	67	4	2.82	-3.12	-5.5
134	75.14	68	10.94983	15.90878	17.28625	68	4	2.86	-3.1	-5.53
136	75.14	69	10.91639	15.97635	17.41636	69	4.29	2.89	-3.08	-5.58
138	75.14	70	10.91639	15.94257	17.47212	70	4.29	2.92	-3.06	-5.6
140	75.15	71	11	15.89189	17.54647	71	4.15	2.94	-3.05	-5.54
142	75.15	72	11.01672	15.92568	17.56506	72	4.57	2.96	-3.04	-5.52
144	75.15	73	11.03344	15.92568	17.62082	73	4.24	2.98	-3.03	-5.4
146	75.15	74	11.13378	15.97635	17.73234	74	3.72	2.99	-3.02	-5.33
148	75.15	75	11.21739	15.99324	17.82528	75	4.1	3.01	-2.99	-5.36
150	75.15	76	11.21739	15.97635	17.86245	76	4.33	3.02	-2.98	-5.41
152	75.15	77	11.25084	15.92568	17.95539	77	4.52	3.06	-2.94	-5.4
154	75.15	78	11.23411	15.90878	17.97398	78	4.8	3.07	-2.93	-5.43
156	75.15	79	11.21739	15.90878	17.99257	79	4.82	3.07	-2.92	-5.47
158	75.15	80	11.23411	15.92568	18.04833	80	4.57	3.09	-2.9	-5.47
160	75.15	81	11.26756	15.94257	18.06691	81	4.28	3.11	-2.89	-5.4
162	75.15	82	11.31773	15.90878	18.12268	82	4.07	3.13	-2.88	-5.29
164	75.16	83	11.41806	15.94257	18.17844	83	3.9	3.14	-2.86	-5.11
166	75.16	84	11.46823	15.95946	18.19703	84	4.22	3.18	-2.84	-5.04
168	75.16	85	11.50167	15.95946	18.27138	85	4.37	3.2	-2.83	-5.06
170	75.16	86	11.51839	15.95946	18.30855	86	4.43	3.22	-2.82	-5.01
172	75.16	87	11.55184	15.99324	18.32714	87	4.31	3.22	-2.81	-4.95

174	75.16	88	11.55184	15.97635	18.36431	88	4.27	3.23	-2.81	-4.91
176	75.16	89	11.51839	15.95946	18.40149	89	4.06	3.24	-2.8	-4.81
178	75.17	90	11.51839	15.94257	18.49442	90	3.98	3.25	-2.79	-4.78
180	75.17	91	11.53512	15.90878	18.51301	91	4.27	3.27	-2.78	-4.84
182	75.17	92	11.50167	15.92568	18.56877	92	4.25	3.29	-2.76	-4.91
184	75.17	93	11.45151	15.89189	18.60595	93	4.13	3.29	-2.75	-4.87
186	75.17	94	11.46823	15.875	18.64312	94	3.98	3.29	-2.76	-4.71
188	75.17	95	11.46823	15.875	18.62454	95	4.07	3.3	-2.75	-4.64
190	75.17	96	11.46823	15.90878	18.66171	96	4.23	3.31	-2.75	-4.57
192	75.17	97	11.45151	15.92568	18.69888	97	4.31	3.31	-2.75	-4.55
194	75.17	98	11.48495	15.94257	18.75465	98	4.17	3.34	-2.73	-4.54
196	75.17	99	11.48495	15.92568	18.75465	99	4.1	3.34	-2.73	-4.58
198	75.17	100	11.50167	15.92568	18.77323	100	4.15	3.36	-2.72	-4.62
200	75.17	101	11.50167	15.89189	18.77323	101	4.31	3.38	-2.71	-4.68
202	75.17	102	11.53512	15.875	18.77323	102	4.42	3.4	-2.7	-4.74
204	75.17	103	11.58528	15.875	18.79182	103	4.49	3.4	-2.7	-4.78
206	75.18	104	11.56856	15.90878	18.75465	104	4.64	3.41	-2.69	-4.83
208	75.18	105	11.55184	15.875	18.79182	105	4.94	3.42	-2.66	-4.89
210	75.18	106	11.56856	15.85811	18.84758	106	5.09	3.42	-2.65	-5
212	75.18	107	11.51839	15.85811	18.90335	107	4.79	3.44	-2.65	-5.01
214	75.18	108	11.50167	15.90878	18.94052	108	4.69	3.46	-2.64	-4.93
216	75.18	109	11.51839	15.92568	18.94052	109	5.13	3.47	-2.62	-4.9
218	75.18	110	11.51839	15.94257	18.95911	110	5.2	3.48	-2.61	-4.9
220	75.18	111	11.50167	15.92568	18.95911	111	5.09	3.48	-2.61	-4.89
222	75.18	112	11.53512	15.94257	19.01487	112	5.39	3.48	-2.61	-4.9
224	75.18	113	11.51839	15.97635	19.05204	113	5.47	3.5	-2.59	-4.95
226	75.18	114	11.48495	15.95946	19.08922	114	5.47	3.49	-2.59	-5.02
228	75.18	115	11.46823	15.99324	19.14498	115	5.45	3.5	-2.58	-5.08
230	75.18	116	11.40134	15.95946	19.18216	116	5.57	3.5	-2.56	-5.15
232	75.18	117	11.33445	15.90878	19.21933	117	5.36	3.5	-2.56	-5.21
234	75.19	118	11.31773	15.94257	19.23792	118	5.2	3.51	-2.56	-5.22
236	75.19	119	11.301	15.94257	19.25651	119	5.42	3.51	-2.55	-5.24
238	75.19	120	11.28428	15.94257	19.31227	120	5.41	3.51	-2.54	-5.24
240	75.19	121	11.23411	16.01014	19.29368	121	5.39	3.51	-2.54	-5.27
242	75.19	122	11.23411	15.95946	19.36803	122	5.4	3.51	-2.53	-5.29
244	75.19	123	11.21739	15.90878	19.34944	123	5.39	3.52	-2.53	-5.31
246	75.19	124	11.13378	15.95946	19.38662	124	5.36	3.52	-2.52	-5.32
248	75.19	125	11.06689	15.95946	19.42379	125	5.48	3.53	-2.5	-5.32
250	75.19	126	11.08361	15.99324	19.46097	126	5.52	3.53	-2.5	-5.33
252	75.19	127	11.05017	15.99324	19.46097	127	5.35	3.54	-2.5	-5.3
254	75.19	128	11.03344	15.99324	19.47955	128	5	3.55	-2.5	-5.24
256	75.19	129	11.08361	15.95946	19.47955	129	4.89	3.55	-2.5	-5.08
258	75.2	130	11.13378	15.90878	19.49814	130	4.98	3.55	-2.5	-4.99
260	75.2	131	11.20067	15.94257	19.47955	131	5.07	3.56	-2.48	-4.97
262	75.2	132	11.301	15.95946	19.4052	132	5.13	3.57	-2.48	-4.86

264	75.2	133	11.28428	15.95946	19.4052	133	5.12	3.58	-2.47	-4.75
266	75.2	134	11.31773	15.90878	19.42379	134	5.14	3.58	-2.47	-4.7
268	75.2	135	11.28428	15.89189	19.36803	135	5.47	3.58	-2.44	-4.85
270	75.2	136	11.21739	15.85811	19.4052	136	5.65	3.58	-2.44	-5.01
272	75.2	137	11.11706	15.875	19.44238	137	5.53	3.59	-2.44	-5.06
274	75.2	138	11.08361	15.90878	19.44238	138	5.19	3.59	-2.44	-5.04
276	75.2	139	11.11706	15.92568	19.47955	139	4.45	3.6	-2.46	-4.82
278	75.21	140	11.20067	15.92568	19.47955	140	4.39	3.61	-2.45	-4.73
280	75.21	141	11.23411	15.90878	19.47955	141	4.28	3.62	-2.45	-4.64
282	75.21	142	11.25084	15.85811	19.47955	142	3.93	3.61	-2.45	-4.49
284	75.21	143	11.33445	15.85811	19.51673	143	3.74	3.61	-2.46	-4.28
286	75.21	144	11.40134	15.89189	19.53532	144	3.64	3.62	-2.46	-4.1
288	75.21	145	11.45151	15.84122	19.49814	145	3.88	3.63	-2.45	-4.13
290	75.21	146	11.43478	15.80743	19.49814	146	3.96	3.63	-2.45	-4.25
292	75.21	147	11.45151	15.77365	19.49814	147	4.04	3.63	-2.44	-4.33
294	75.21	148	11.50167	15.75676	19.51673	148	3.81	3.63	-2.43	-4.29
296	75.21	149	11.48495	15.72297	19.51673	149	3.47	3.64	-2.43	-4.23
298	75.21	150	11.41806	15.73986	19.47955	150	3.62	3.64	-2.43	-4.26
300	75.21	151	11.41806	15.82432	19.47955	151	3.92	3.64	-2.43	-4.33
302	75.21	152	11.43478	15.79054	19.49814	152	4.3	3.65	-2.42	-4.39
304	75.21	153	11.45151	15.77365	19.49814	153	4.75	3.65	-2.42	-4.4
306	75.22	154	11.43478	15.77365	19.53532	154	5.2	3.66	-2.42	-4.4
308	75.22	155	11.45151	15.77365	19.5539	155	5.36	3.67	-2.4	-4.4
310	75.22	156	11.46823	15.77365	19.59108	156	5.4	3.68	-2.39	-4.44
312	75.22	157	11.48495	15.79054	19.51673	157	4.91	3.7	-2.37	-4.56
314	75.22	158	11.43478	15.79054	19.49814	158	5.03	3.69	-2.38	-4.59
316	75.22	159	11.36789	15.75676	19.53532	159	4.98	3.7	-2.37	-4.57
318	75.22	160	11.35117	15.79054	19.60967	160	4.76	3.71	-2.37	-4.61
320	75.22	161	11.33445	15.79054	19.62825	161	4.45	3.71	-2.37	-4.61
322	75.22	162	11.35117	15.75676	19.62825	162	4.24	3.72	-2.37	-4.5
324	75.22	163	11.40134	15.79054	19.64684	163	4.03	3.72	-2.36	-4.35
326	75.22	164	11.41806	15.73986	19.60967	164	3.82	3.73	-2.35	-4.15
328	75.22	165	11.45151	15.73986	19.64684	165	3.75	3.74	-2.34	-4.06
330	75.22	166	11.51839	15.72297	19.60967	166	3.78	3.75	-2.34	-4.05
332	75.22	167	11.50167	15.70608	19.64684	167	3.77	3.76	-2.33	-4.08
334	75.22	168	11.45151	15.72297	19.64684	168	4.01	3.79	-2.3	-4.13
336	75.23	169	11.51839	15.68919	19.60967	169	4.16	3.81	-2.27	-4.42
338	75.23	170	11.38462	15.79054	19.62825	170	4.45	3.83	-2.28	-4.63
340	75.23	171	11.33445	15.80743	19.66543	171	4.42	3.83	-2.28	-4.74
342	75.23	172	11.25084	15.77365	19.68401	172	4.32	3.83	-2.3	-4.77
344	75.23	173	11.20067	15.72297	19.66543	173	4.46	3.82	-2.31	-4.61
346	75.23	174	11.21739	15.75676	19.7026	174	4.48	3.82	-2.31	-4.34
348	75.23	175	11.31773	15.75676	19.66543	175	4.16	3.82	-2.3	-4.16
350	75.23	176	11.41806	15.75676	19.64684	176	3.83	3.82	-2.29	-4.11
352	75.23	177	11.50167	15.73986	19.66543	177	3.52	3.83	-2.28	-4.14

354	75.23	178	11.50167	15.72297	19.62825	178	3.65	3.85	-2.27	-4.33
356	75.23	179	11.46823	15.72297	19.59108	179	3.95	3.86	-2.26	-4.6
358	75.23	180	11.36789	15.75676	19.64684	180	3.98	3.88	-2.26	-4.75
360	75.24	181	11.23411	15.77365	19.64684	181	4.16	3.89	-2.25	-4.82
362	75.24	182	11.20067	15.77365	19.62825	182	3.98	3.9	-2.25	-4.86
364	75.23	183	11.20067	15.79054	19.64684	183	4.07	3.91	-2.26	-4.9
366	75.24	184	11.10033	15.79054	19.68401	184	4.34	3.92	-2.26	-4.92
368	75.24	185	11.06689	15.82432	19.72119	185	5.25	3.92	-2.25	-4.91
370	75.24	186	11.08361	15.82432	19.7026	186	5.38	3.91	-2.25	-4.89
372	75.24	187	11.10033	15.77365	19.60967	187	5.53	3.91	-2.24	-4.86
374	75.24	188	11.11706	15.79054	19.60967	188	5.56	3.91	-2.24	-4.86
376	75.24	189	11.1505	15.75676	19.64684	189	5.42	3.88	-2.26	-4.75
378	75.24	190	11.25084	15.72297	19.64684	190	4.63	3.86	-2.27	-4.57
380	75.24	191	11.36789	15.70608	19.66543	191	4.23	3.87	-2.27	-4.36
382	75.24	192	11.45151	15.68919	19.68401	192	3.87	3.87	-2.27	-4.16
384	75.24	193	11.50167	15.6723	19.66543	193	3	3.88	-2.27	-3.97
386	75.24	194	11.56856	15.68919	19.60967	194	3.47	3.89	-2.25	-3.96
388	75.24	195	11.63545	15.72297	19.66543	195	3.71	3.91	-2.22	-4.29
390	75.25	196	11.55184	15.77365	19.62825	196	3.1	3.93	-2.22	-4.57
392	75.25	197	11.55184	15.75676	19.59108	197	3.02	3.92	-2.23	-4.65
394	75.25	198	11.50167	15.75676	19.60967	198	3.02	3.9	-2.27	-4.27
396	75.25	199	11.46823	15.80743	19.62825	199	3.33	3.89	-2.27	-3.99
398	75.25	200	11.46823	15.79054	19.57249	200	2.59	3.88	-2.27	-3.95
400	75.25	201	11.55184	15.77365	19.60967	201	2.6	3.88	-2.27	-3.92
402	75.25	202	11.61873	15.70608	19.60967	202	3.67	3.89	-2.27	-3.9
404	75.25	203	11.63545	15.73986	19.57249	203	3.77	3.89	-2.26	-3.91
406	75.25	204	11.68562	15.70608	19.57249	204	4.07	3.88	-2.25	-3.95
408	75.25	205	11.71906	15.72297	19.60967	205	3.04	3.87	-2.25	-4.04
410	75.25	206	11.73579	15.72297	19.62825	206	2.96	3.88	-2.25	-4.06
412	75.25	207	11.71906	15.75676	19.62825	207	2.85	3.88	-2.25	-4.04
414	75.25	208	11.71906	15.73986	19.64684	208	2.71	3.88	-2.25	-4.06
416	75.25	209	11.70234	15.72297	19.66543	209	3.02	3.88	-2.26	-4.03
418	75.25	210	11.6689	15.73986	19.66543	210	3.29	3.88	-2.24	-4.05
420	75.25	211	11.6689	15.77365	19.59108	211	3.01	3.87	-2.23	-4.11
422	75.25	212	11.65217	15.77365	19.57249	212	2.94	3.87	-2.24	-4.12
424	75.25	213	11.6689	15.77365	19.60967	213	3.38	3.86	-2.23	-4.12
426	75.25	214	11.6689	15.75676	19.64684	214	3.81	3.89	-2.22	-4.06
428	75.25	215	11.70234	15.79054	19.62825	215	3.65	3.89	-2.21	-3.97
430	75.25	216	11.65217	15.82432	19.66543	216	3.92	3.89	-2.21	-3.94
432	75.25	217	11.63545	15.80743	19.66543	217	4.29	3.87	-2.21	-3.98
434	75.25	218	11.61873	15.75676	19.64684	218	4.34	3.87	-2.2	-4.06
436	75.25	219	11.70234	15.72297	19.60967	219	4.29	3.86	-2.2	-4.14
438	75.25	220	11.6689	15.72297	19.59108	220	4.36	3.86	-2.21	-4.22
440	75.26	221	11.6689	15.75676	19.59108	221	4.29	3.86	-2.19	-4.23
442	75.26	222	11.68562	15.70608	19.64684	222	4.16	3.87	-2.18	-4.18

444	75.26	223	11.68562	15.6723	19.5539	223	3.5	3.87	-2.19	-4.01
446	75.26	224	11.70234	15.75676	19.5539	224	3.44	3.87	-2.19	-3.88
448	75.26	225	11.73579	15.72297	19.62825	225	2.94	3.86	-2.19	-3.86
450	75.26	226	11.71906	15.65541	19.62825	226	4.6	3.86	-2.19	-3.92
452	75.26	227	11.73579	15.72297	19.62825	227	3.15	3.87	-2.18	-3.83
454	75.26	228	11.78595	15.72297	19.62825	228	2.64	3.87	-2.19	-3.61
456	75.26	229	11.75251	15.70608	19.62825	229	2.24	3.88	-2.18	-3.67
458	75.26	230	11.70234	15.70608	19.59108	230	2.46	3.88	-2.17	-3.86
460	75.26	231	11.65217	15.77365	19.57249	231	2.49	3.89	-2.18	-4.03
462	75.26	232	11.58528	15.77365	19.62825	232	2.52	3.9	-2.18	-3.85
464	75.26	233	11.56856	15.79054	19.68401	233	3.01	3.91	-2.16	-3.95
466	75.26	234	11.51839	15.77365	19.64684	234	3.17	3.92	-2.16	-4.03
468	75.26	235	11.46823	15.77365	19.62825	235	2.86	3.92	-2.16	-4.04
470	75.27	236	11.43478	15.75676	19.60967	236	3.04	3.92	-2.15	-4.04
472	75.26	237	11.40134	15.73986	19.62825	237	2.97	3.93	-2.16	-3.93
474	75.27	238	11.43478	15.80743	19.62825	238	2.99	3.93	-2.16	-3.88
476	75.26	239	11.48495	15.79054	19.64684	239	2.35	3.93	-2.18	-3.38
478	75.26	240	11.53512	15.75676	19.62825	240	2.33	3.94	-2.18	-3.06
480	75.27	241	11.61873	15.73986	19.62825	241	2.73	3.95	-2.16	-2.88
		242	11.68562	15.72297	19.66543	242	2.78	3.95	-2.16	-2.76
		243	11.78595	15.70608	19.66543	243	3.16	3.95	-2.15	-2.98
		244	11.85284	15.65541	19.7026	244	2.92	3.95	-2.13	-3.36
		245	11.80268	15.68919	19.7026	245	3.04	3.96	-2.12	-3.5
		246	11.80268	15.6723	19.68401	246	2.35	3.95	-2.14	-3.39
		247	11.80268	15.60473	19.68401	247	2.17	3.96	-2.13	-3.39
		248	11.86957	15.65541	19.60967	248	2.08	3.97	-2.13	-3.5
		249	11.83612	15.72297	19.68401	249	2.47	3.97	-2.12	-3.6
		250	11.86957	15.6723	19.62825	250	4.39	3.98	-2.1	-3.63
		251	11.91973	15.6723	19.60967	251	4.06	3.99	-2.09	-3.67
		252	11.93645	15.68919	19.62825	252	4.18	4.01	-2.06	-3.71
		253	11.93645	15.63851	19.66543	253	4.02	4.01	-2.05	-3.66
		254	11.91973	15.63851	19.64684	254	4.77	4.03	-2.02	-3.79
		255	11.91973	15.65541	19.7026	255	4.93	4.03	-2.01	-3.95
		256	11.85284	15.63851	19.72119	256	5.11	4.04	-2	-4.03
		257	11.78595	15.58784	19.7026	257	5.14	4.05	-2	-3.99
		258	11.75251	15.57095	19.73978	258	4.92	4.06	-1.98	-3.99
		259	11.6689	15.50338	19.73978	259	4.7	4.07	-1.97	-3.99
		260	11.65217	15.50338	19.73978	260	4.76	4.08	-1.96	-3.92
		261	11.65217	15.46959	19.75836	261	4.62	4.07	-1.96	-3.85
		262	11.63545	15.46959	19.73978	262	4.89	4.07	-1.97	-3.67
		263	11.70234	15.46959	19.68401	263	4.8	4.08	-1.96	-3.52
		264	11.76923	15.48649	19.66543	264	4.9	4.09	-1.95	-3.54
		265	11.85284	15.48649	19.68401	265	4.92	4.1	-1.93	-3.57
		266	11.91973	15.50338	19.68401	266	4.74	4.1	-1.94	-3.51
		267	11.91973	15.43581	19.7026	267	4.96	4.1	-1.93	-3.49

268	11.9699	15.46959	19.72119	268	4.83	4.11	-1.93	-3.52
269	11.95318	15.43581	19.68401	269	4.84	4.12	-1.91	-3.68
270	11.91973	15.36824	19.66543	270	5.19	4.13	-1.9	-3.73
271	11.88629	15.46959	19.62825	271	5.3	4.12	-1.91	-3.74
272	11.88629	15.48649	19.64684	272	5.31	4.13	-1.91	-3.7
273	11.88629	15.46959	19.66543	273	5.21	4.12	-1.91	-3.7
274	11.86957	15.48649	19.7026	274	5	4.13	-1.9	-3.73
275	11.85284	15.4527	19.73978	275	4.44	4.12	-1.92	-3.79
276	11.85284	15.46959	19.72119	276	4.87	4.13	-1.91	-3.75
277	11.83612	15.4527	19.7026	277	4.63	4.13	-1.91	-3.78
278	11.76923	15.4527	19.72119	278	4.58	4.13	-1.9	-4.11
279	11.65217	15.53716	19.7026	279	4.51	4.13	-1.9	-4.39
280	11.53512	15.58784	19.66543	280	4.36	4.13	-1.9	-4.52
281	11.35117	15.60473	19.64684	281	4.31	4.12	-1.91	-4.6
282	11.18395	15.62162	19.64684	282	4.39	4.11	-1.92	-4.67
283	11.10033	15.68919	19.60967	283	4.32	4.1	-1.93	-4.72
284	11.08361	15.6723	19.64684	284	4.35	4.11	-1.92	-4.74
285	11.06689	15.68919	19.62825	285	4.37	4.1	-1.93	-4.77
286	11.05017	15.68919	19.62825	286	4.39	4.09	-1.94	-4.8
287	11.05017	15.68919	19.66543	287	3.4	4.09	-1.94	-4.75
288	11.05017	15.70608	19.7026	288	3.32	4.08	-1.95	-4.68
289	11.05017	15.75676	19.72119	289	3.61	4.08	-1.95	-4.66
290	11.01672	15.75676	19.7026	290	3.55	4.08	-1.96	-4.63
291	11	15.75676	19.7026	291	3.54	4.07	-1.96	-4.63
292	10.94983	15.73986	19.7026	292	3.57	4.07	-1.97	-4.62
293	11	15.68919	19.73978	293	3.46	4.08	-1.97	-4.58
294	11	15.70608	19.73978	294	3.49	4.07	-1.98	-4.57
295	11	15.77365	19.7026	295	3.56	4.06	-1.99	-4.6
296	10.94983	15.85811	19.66543	296	3.6	4.06	-2	-4.63
297	10.94983	15.875	19.64684	297	3.35	4.06	-2	-4.64
298	10.96656	15.79054	19.68401	298	3.34	4.05	-1.99	-4.59
299	10.93311	15.82432	19.7026	299	3.59	4.06	-2	-4.54
300	11	15.84122	19.7026	300	3.5	4.05	-2	-4.5
301	11.05017	15.82432	19.7026	301	3.26	4.04	-2	-4.48
302	11.01672	15.80743	19.66543	302	3.27	4.04	-2	-4.49
303	11	15.80743	19.7026	303	3	4.03	-2.02	-4.5
304	10.96656	15.80743	19.7026	304	2.83	4.03	-2.02	-4.48
305	11	15.82432	19.72119	305	3.1	4.04	-2.02	-4.42
306	11.06689	15.85811	19.7026	306	3.08	4.04	-2.01	-4.39
307	11.11706	15.85811	19.7026	307	3.19	4.04	-2.02	-4.34
308	11.18395	15.80743	19.73978	308	3.18	4.04	-2	-4.37
309	11.18395	15.80743	19.72119	309	3.2	4.05	-1.99	-4.42
310	11.16722	15.73986	19.68401	310	3.07	4.04	-2	-4.46
311	11.13378	15.77365	19.64684	311	3.5	4.05	-2	-4.47
312	11.13378	15.72297	19.7026	312	3.47	4.05	-2	-4.49

313	11.06689	15.75676	19.66543	313	3.1	4.04	-2	-4.43
314	11.1505	15.84122	19.7026	314	3.26	4.05	-2	-4.41
315	11.20067	15.84122	19.68401	315	3.26	4.05	-2	-4.35
316	11.18395	15.80743	19.68401	316	3.27	4.06	-1.99	-4.34
317	11.23411	15.80743	19.68401	317	3.26	4.06	-1.99	-4.32
318	11.301	15.79054	19.68401	318	3.38	4.05	-1.98	-4.37
319	11.26756	15.77365	19.66543	319	3.34	4.06	-1.98	-4.37
320	11.21739	15.75676	19.7026	320	3.22	4.06	-1.97	-4.34
321	11.23411	15.75676	19.68401	321	3.22	4.06	-1.97	-4.4
322	11.21739	15.77365	19.7026	322	3.26	4.06	-1.97	-4.45
323	11.21739	15.79054	19.66543	323	3.27	4.06	-1.97	-4.48
324	11.21739	15.73986	19.7026	324	3.1	4.06	-1.97	-4.49
325	11.16722	15.79054	19.68401	325	3.1	4.06	-1.97	-4.45
326	11.13378	15.70608	19.60967	326	3.26	4.06	-1.96	-4.52
327	11.1505	15.75676	19.64684	327	3.23	4.06	-1.97	-4.54
328	11.1505	15.80743	19.62825	328	3.12	4.05	-1.97	-4.49
329	11.13378	15.80743	19.62825	329	3.3	4.06	-1.97	-4.51
330	11.11706	15.75676	19.68401	330	3.65	4.05	-1.98	-4.44
331	11.18395	15.72297	19.64684	331	3.87	4.05	-1.98	-4.37
332	11.33445	15.73986	19.68401	332	4.28	4.04	-1.98	-4.25
333	11.46823	15.80743	19.68401	333	4.41	4.05	-1.97	-4.18
334	11.51839	15.84122	19.68401	334	4.47	4.06	-1.96	-4.06
335	11.60201	15.75676	19.62825	335	4.55	4.05	-1.96	-3.98
336	11.71906	15.77365	19.66543	336	4.6	4.06	-1.94	-3.98
337	11.8194	15.72297	19.68401	337	4.23	4.06	-1.94	-4.07
338	11.8194	15.73986	19.7026	338	4.48	4.07	-1.94	-4.02
339	11.76923	15.70608	19.68401	339	4.27	4.08	-1.93	-3.96
340	11.78595	15.72297	19.62825	340	4.89	4.07	-1.94	-3.89
341	11.86957	15.70608	19.66543	341	5.22	4.07	-1.94	-3.83
342	11.91973	15.73986	19.7026	342	4.52	4.07	-1.91	-3.9
343	11.88629	15.6723	19.62825	343	3.62	4.07	-1.91	-4.08
344	11.78595	15.63851	19.62825	344	3.52	4.08	-1.92	-4.1
345	11.68562	15.68919	19.68401	345	3.61	4.08	-1.93	-4.08
346	11.58528	15.6723	19.62825	346	3.52	4.08	-1.92	-4.18
347	11.51839	15.70608	19.66543	347	3.39	4.08	-1.93	-4.17
348	11.53512	15.65541	19.68401	348	3.55	4.09	-1.94	-4.18
349	11.50167	15.63851	19.72119	349	3.55	4.08	-1.93	-4.2
350	11.48495	15.68919	19.73978	350	3.43	4.07	-1.94	-4.23
351	11.41806	15.72297	19.7026	351	3.35	4.08	-1.94	-4.24
352	11.36789	15.65541	19.7026	352	3.37	4.08	-1.94	-4.23
353	11.36789	15.60473	19.72119	353	3.44	4.08	-1.94	-4.22
354	11.28428	15.6723	19.73978	354	3.48	4.09	-1.93	-4.26
355	11.26756	15.68919	19.7026	355	3.54	4.09	-1.94	-4.27
356	11.26756	15.75676	19.73978	356	3.66	4.09	-1.96	-4.18
357	11.28428	15.72297	19.73978	357	3.42	4.09	-1.95	-4.18

358	11.28428	15.70608	19.7026	358	3.48	4.09	-1.95	-4.19
359	11.28428	15.6723	19.68401	359	3.36	4.1	-1.94	-4.18
360	11.301	15.62162	19.7026	360	3.38	4.1	-1.94	-4.19
361	11.301	15.60473	19.66543	361	3.36	4.11	-1.94	-4.22
362	11.28428	15.63851	19.73978	362	4.02	4.12	-1.94	-4.23
363	11.33445	15.60473	19.73978	363	4.63	4.12	-1.94	-4.08
364	11.46823	15.57095	19.7026	364	4.69	4.13	-1.91	-3.98
365	11.58528	15.57095	19.7026	365	4.93	4.13	-1.92	-3.87
366	11.58528	15.53716	19.72119	366	4.52	4.13	-1.91	-3.7
367	11.6689	15.50338	19.7026	367	5.03	4.12	-1.91	-3.71
368	11.70234	15.43581	19.68401	368	4.62	4.13	-1.91	-3.69
369	11.76923	15.41892	19.64684	369	3.57	4.15	-1.9	-3.5
370	11.78595	15.43581	19.64684	370	3.32	4.14	-1.89	-3.63
371	11.75251	15.46959	19.60967	371	3.27	4.15	-1.89	-3.78
372	11.70234	15.50338	19.64684	372	3.24	4.15	-1.89	-3.85
373	11.61873	15.52027	19.68401	373	3.58	4.15	-1.9	-3.81
374	11.61873	15.53716	19.72119	374	3.27	4.16	-1.89	-3.82
375	11.61873	15.52027	19.68401	375	3.19	4.15	-1.89	-3.9
376	11.60201	15.43581	19.7026	376	3.12	4.16	-1.89	-3.94
377	11.51839	15.55405	19.68401	377	3.06	4.16	-1.9	-3.96
378	11.41806	15.62162	19.7026	378	3.15	4.16	-1.9	-3.99
379	11.40134	15.57095	19.73978	379	3.23	4.16	-1.9	-4.02
380	11.36789	15.58784	19.73978	380	3.63	4.15	-1.91	-4
381	11.36789	15.57095	19.68401	381	3.69	4.15	-1.91	-3.98
382	11.35117	15.58784	19.7026	382	4.09	4.15	-1.91	-3.94
383	11.41806	15.58784	19.72119	383	3.75	4.16	-1.89	-3.95
384	11.45151	15.58784	19.72119	384	3.62	4.17	-1.89	-3.92
385	11.50167	15.57095	19.73978	385	3.47	4.16	-1.9	-3.88
386	11.55184	15.65541	19.73978	386	4.03	4.17	-1.9	-3.83
387	11.55184	15.57095	19.66543	387	3.49	4.17	-1.89	-3.81
388	11.56856	15.62162	19.64684	388	3.86	4.17	-1.88	-3.88
389	11.56856	15.60473	19.66543	389	4.09	4.17	-1.88	-3.9
390	11.53512	15.62162	19.68401	390	3.83	4.17	-1.88	-3.92
391	11.48495	15.62162	19.66543	391	3.83	4.17	-1.88	-3.93
392	11.48495	15.57095	19.66543	392	3.93	4.18	-1.89	-3.93
393	11.46823	15.62162	19.64684	393	4.24	4.18	-1.88	-3.87
394	11.48495	15.55405	19.7026	394	4.51	4.19	-1.89	-3.81
395	11.55184	15.57095	19.72119	395	4.42	4.2	-1.87	-3.68
396	11.65217	15.57095	19.68401	396	4.91	4.18	-1.87	-3.65
397	11.73579	15.52027	19.7026	397	4.37	4.18	-1.85	-3.65
398	11.76923	15.50338	19.68401	398	3.95	4.18	-1.85	-3.68
399	11.73579	15.53716	19.64684	399	3.82	4.19	-1.86	-3.68
400	11.6689	15.52027	19.66543	400	3.96	4.21	-1.86	-3.55
401	11.61873	15.55405	19.68401	401	3.86	4.22	-1.86	-3.12
402	11.65217	15.46959	19.73978	402	4.04	4.22	-1.86	-3.02

403	11.73579	15.4527	19.75836	403	4.14	4.23	-1.84	-2.99
404	11.78595	15.36824	19.75836	404	4.36	4.23	-1.83	-2.97
405	11.85284	15.33446	19.72119	405	4.8	4.22	-1.82	-3.11
406	11.86957	15.33446	19.68401	406	4.74	4.22	-1.81	-3.18
407	11.83612	15.31757	19.60967	407	4.7	4.23	-1.79	-3.21
408	11.86957	15.30068	19.66543	408	4.49	4.25	-1.78	-3.09
409	11.85284	15.30068	19.60967	409	4.71	4.25	-1.78	-2.99
410	11.80268	15.26689	19.64684	410	4.73	4.26	-1.77	-2.96
411	11.83612	15.19932	19.62825	411	4.33	4.27	-1.76	-3.08
412	11.8194	15.25	19.60967	412	3.62	4.27	-1.75	-3.17
413	11.75251	15.19932	19.66543	413	4.27	4.28	-1.75	-3.18
414	11.73579	15.19932	19.7026	414	4.38	4.3	-1.75	-3.17
415	11.71906	15.19932	19.66543	415	4.22	4.29	-1.75	-3.13
416	11.73579	15.14865	19.60967	416	4.26	4.29	-1.75	-3.1
417	11.71906	15.16554	19.66543	417	4.26	4.3	-1.74	-3.14
418	11.73579	15.19932	19.62825	418	3.97	4.31	-1.75	-3.13
419	11.75251	15.18243	19.66543	419	4.21	4.3	-1.76	-3.29
420	11.76923	15.13176	19.7026	420	3.57	4.31	-1.75	-3.14
421	11.80268	15.16554	19.72119	421	3.13	4.33	-1.73	-3.05
422	11.80268	15.14865	19.68401	422	3.29	4.33	-1.74	-3.09
423	11.8194	15.19932	19.73978	423	3.39	4.33	-1.75	-2.97
424	11.85284	15.23311	19.75836	424	3.51	4.32	-1.75	-2.85
425	11.88629	15.23311	19.75836	425	3.61	4.33	-1.75	-2.85
426	11.86957	15.19932	19.64684	426	4.15	4.32	-1.76	-2.99
427	11.8194	15.16554	19.57249	427	4.5	4.32	-1.75	-3.1
428	11.86957	15.13176	19.59108	428	3.82	4.33	-1.75	-3.06
429	11.86957	15.14865	19.60967	429	3.41	4.34	-1.76	-3.04
430	11.86957	15.14865	19.60967	430	3.5	4.35	-1.76	-3.02
431	11.85284	15.09797	19.57249	431	3.78	4.35	-1.76	-2.98
432	11.86957	15.11486	19.5539	432	3.84	4.34	-1.76	-2.93
433	11.86957	15.08108	19.59108	433	3.94	4.35	-1.74	-2.96
434	11.8194	15.0473	19.64684	434	3.55	4.37	-1.74	-2.89
435	11.78595	15.0473	19.62825	435	3.18	4.38	-1.73	-2.85
436	11.80268	15.09797	19.62825	436	3.04	4.38	-1.71	-2.85
437	11.8194	15.09797	19.66543	437	4.27	4.37	-1.72	-3.05
438	11.88629	15.11486	19.5539	438	4.31	4.37	-1.72	-3.03
439	11.91973	15.14865	19.59108	439	4.36	4.36	-1.73	-3.03
440	11.95318	15.16554	19.5539	440	4.71	4.36	-1.73	-3.12
441	11.93645	15.18243	19.57249	441	4.8	4.35	-1.73	-3.19
442	11.95318	15.08108	19.57249	442	4.2	4.36	-1.72	-3.15
443	12.02007	15.08108	19.5539	443	4.23	4.36	-1.71	-3.01
444	11.9699	15.11486	19.57249	444	4.18	4.37	-1.7	-2.89
445	11.91973	15.11486	19.60967	445	4.33	4.37	-1.7	-2.91
446	11.90301	15.09797	19.62825	446	4.61	4.37	-1.69	-3.07
447	11.85284	15.14865	19.62825	447	4.27	4.37	-1.7	-3.11

448	11.80268	15.16554	19.62825	448	4.31	4.37	-1.69	-3.2
449	11.80268	15.09797	19.62825	449	3.95	4.37	-1.69	-3.24
450	11.78595	15.09797	19.60967	450	4.11	4.37	-1.69	-3.24
451	11.76923	15.11486	19.64684	451	3.96	4.38	-1.69	-3.25
452	11.8194	15.13176	19.64684	452	4.01	4.38	-1.68	-3.26
453	11.78595	15.09797	19.60967	453	4.61	4.36	-1.7	-3.41
454	11.75251	15.09797	19.66543	454	5.05	4.36	-1.69	-3.46
455	11.76923	15.14865	19.66543	455	4.96	4.36	-1.68	-3.46
456	11.78595	15.14865	19.72119	456	4.32	4.36	-1.69	-3.41
457	11.8194	15.08108	19.72119	457	3.43	4.38	-1.69	-3.3
458	11.86957	15.09797	19.68401	458	4.39	4.37	-1.69	-3.02
459	11.91973	15.11486	19.73978	459	4.22	4.39	-1.68	-2.93
460	11.90301	15.13176	19.64684	460	3.74	4.39	-1.67	-2.95
461	11.83612	15.11486	19.68401	461	3.95	4.39	-1.67	-3.04
462	11.88629	15.14865	19.64684	462	3.89	4.39	-1.67	-3.06
463	11.85284	15.08108	19.62825	463	4.03	4.39	-1.66	-3.14
464	11.83612	15.13176	19.7026	464	4.11	4.4	-1.66	-3.18
465	11.83612	15.16554	19.66543	465	3.95	4.4	-1.67	-3.07
466	11.78595	15.09797	19.64684	466	3.85	4.4	-1.68	-2.83
467	11.76923	15.13176	19.64684	467	3.92	4.4	-1.69	-2.85
468	11.8194	15.13176	19.66543	468	3.78	4.4	-1.68	-2.81
469	11.78595	15.19932	19.7026	469	3.91	4.4	-1.67	-2.9
470	11.8194	15.11486	19.66543	470	4.39	4.4	-1.66	-3.35
471	11.76923	15.08108	19.66543	471	3.82	4.42	-1.7	-3.41
472	11.70234	15.08108	19.66543	472	3.15	4.4	-1.71	-3.15
473	11.73579	15.09797	19.66543	473	4.06	4.39	-1.69	-3.12
474	11.75251	15.09797	19.72119	474	4.15	4.39	-1.69	-3.2
475	11.76923	15.11486	19.66543	475	4.06	4.39	-1.7	-3.2
476	11.75251	15.11486	19.66543	476	3.82	4.39	-1.7	-3.4
477	11.73579	15.11486	19.66543	477	4.02	4.38	-1.71	-3.48
478	11.73579	15.09797	19.72119	478	4.31	4.38	-1.72	-3.46
479	11.80268	15.16554	19.66543	479	5.01	4.37	-1.71	-3.48
480	11.86957	15.19932	19.66543	480	4.9	4.36	-1.69	-3.55
481	11.90301	15.21622	19.68401	481	4.06	4.37	-1.69	-3.33

Adsorp_exp_15

Experiment type: Adsorption controlled experiment. There was no regolith in this experiment, just an empty petri dish. The initial weight was 75.87 g. The humidity buffer was LiCl which has a RH of 11.31 at 0 degrees Celsius, cooled with the chiller system.

Thermocouple: 1= upper atmosphere 2= sample 3= humidity buffer 4= lower atmosphere

Hygrometers: 2= humidity buffer 3= atmosphere 4= sample

Mass		RH				T				
Min.	Mass	Min.	Ch02	Ch03	Ch04	Min.	Ch01	Ch02	Ch03	Ch04
0	0.43	0	27.52843	41.54054	19.05204	0	7.63	-2.81	-5.07	-9.47
1	0	1	27.47826	42.36824	18.42007	1	4.6	-3.58	-4.79	-8.28
2	-0.32	2	27.47826	47.57095	16.56134	2	-2.94	-4.81	-5.55	-10.68
4	-0.46	3	27.69565	49.02365	14.42379	3	-3	-4.52	-6.08	-10.85
6	-0.47	4	27.97993	46.97973	13.3829	4	-3.73	-3.91	-6.24	-10.98
8	-0.46	5	28.41472	43.38176	13.28996	5	-3.24	-3.74	-6.35	-10.92
10	-0.46	6	29.01672	40.00338	13.55019	6	-1.86	-3.38	-6.43	-10.77
12	-0.47	7	29.60201	39.24324	14.12639	7	-0.61	-3	-6.41	-10.27
14	-0.48	8	30.18729	39.88514	15.24164	8	0.96	-2.8	-6.53	-9.6
16	-0.49	9	30.7893	37.73986	16.85874	9	0.91	-2.65	-6.52	-9.09
18	-0.5	10	31.29097	34.17568	18.32714	10	1.32	-2.52	-6.49	-8.42
20	-0.5	11	31.6087	31.30405	19.4052	11	1.86	-2.4	-6.47	-7.92
22	-0.51	12	31.74247	28.98986	20.20446	12	1.76	-2.29	-6.45	-7.61
24	-0.52	13	31.77592	26.89527	20.66914	13	1.49	-2.17	-6.42	-7.41
26	-0.52	14	31.70903	25.00338	20.87361	14	1.76	-2.03	-6.4	-7.27
28	-0.53	15	31.54181	23.01014	21.0223	15	1.59	-1.94	-6.36	-7.2
30	-0.53	16	31.29097	20.89865	21.13383	16	1.96	-1.83	-6.34	-7.11
32	-0.54	17	30.97324	18.93919	21.13383	17	2.18	-1.72	-6.33	-6.96
34	-0.54	18	30.62207	17.13176	20.96654	18	2.01	-1.61	-6.31	-6.71
36	-0.55	19	30.17057	15.83108	20.72491	19	2.3	-1.51	-6.31	-6.45
38	-0.55	20	29.55184	14.91892	20.39033	20	2.09	-1.4	-6.3	-6.29
40	-0.55	21	28.88294	13.9223	20	21	2.52	-1.28	-6.31	-6.31
42	-0.56	22	28.1806	12.79054	19.59108	22	2.37	-1.16	-6.3	-6.35
44	-0.56	23	27.47826	11.52365	19.14498	23	2.63	-1.11	-6.28	-6.45
46	-0.56	24	26.85953	10.32432	18.56877	24	2.58	-1	-6.27	-6.49
48	-0.57	25	26.15719	9.277027	17.86245	25	2.57	-0.93	-6.22	-6.45
50	-0.57	26	25.43813	8.263514	17.10037	26	2.67	-0.86	-6.18	-6.27
52	-0.57	27	24.65217	7.266892	16.20818	27	2.9	-0.76	-6.17	-6.27
54	-0.57	28	23.74916	6.304054	15.20446	28	2.95	-0.69	-6.18	-6.28
56	-0.57	29	22.97993	5.358108	14.16357	29	3.13	-0.62	-6.17	-6.17
58	-0.58	30	22.24415	4.39527	13.15985	30	3.04	-0.54	-6.17	-6.09
60	-0.58	31	21.37458	3.449324	12.15613	31	2.93	-0.48	-6.17	-6.14
62	-0.58	32	20.47157	2.537162	11.13383	32	2.86	-0.4	-6.16	-6.07
64	-0.58	33	19.63545	1.709459	10.09294	33	3.06	-0.33	-6.16	-6.09
66	-0.58	34	18.81605	0.814189	9.052045	34	2.81	-0.27	-6.15	-6.14
68	-0.58	35	17.86288	0.131757	8.085502	35	2.92	-0.21	-6.15	-6.11
70	-0.58	36	16.92642	0.959459	7.137546	36	3.09	-0.15	-6.12	-6.22
72	-0.59	37	16.12375	1.804054	6.208178	37	3.03	-0.1	-6.12	-6.27

74	-0.59	38	15.28763	2.597973	5.223048	38	3.04	-0.06	-6.12	-6.26
76	-0.59	39	14.46823	3.307432	4.256506	39	3.08	0.01	-6.1	-6.24
78	-0.59	40	13.61538	4.016892	3.364312	40	2.79	0.05	-6.07	-6.32
80	-0.59	41	12.82943	4.692568	2.527881	41	2.79	0.1	-6.05	-6.32
82	-0.59	42	12.11037	5.233108	1.69145	42	2.96	0.15	-6.04	-6.19
84	-0.59	43	11.27425	5.756757	0.836431	43	2.86	0.19	-6.02	-6.16
86	-0.59	44	10.48829	6.22973	0.037175	44	3	0.24	-6	-6.12
88	-0.59	45	9.785953	6.618243	0.687732	45	2.94	0.28	-5.99	-6.02
90	-0.6	46	9.100334	6.956081	1.282528	46	2.5	0.36	-5.95	-5.93
92	-0.6	47	8.331104	7.327703	1.914498	47	2.67	0.41	-5.92	-5.97
94	-0.6	48	7.61204	7.75	2.527881	48	2.85	0.45	-5.89	-6.02
96	-0.6	49	7.026756	8.087838	3.104089	49	2.84	0.5	-5.84	-6.1
98	-0.6	50	6.458194	8.358108	3.680297	50	2.99	0.54	-5.83	-6.11
100	-0.6	51	5.889632	8.64527	4.219331	51	3.17	0.57	-5.81	-6.05
102	-0.6	52	5.371237	8.949324	4.702602	52	2.46	0.6	-5.78	-6.04
104	-0.6	53	4.886288	9.219595	5.167286	53	2.86	0.64	-5.77	-5.92
106	-0.6	54	4.367893	9.456081	5.576208	54	3.39	0.68	-5.73	-5.74
108	-0.6	55	3.749164	9.625	5.892193	55	3.2	0.73	-5.69	-5.96
110	-0.61	56	3.230769	9.777027	6.319703	56	3.14	0.77	-5.67	-5.99
112	-0.61	57	2.879599	10.01351	6.784387	57	2.91	0.81	-5.64	-6
114	-0.61	58	2.444816	10.25	7.100372	58	2.76	0.84	-5.61	-6.05
116	-0.61	59	1.959866	10.41892	7.472119	59	2.87	0.87	-5.59	-5.92
118	-0.61	60	1.525084	10.55405	7.825279	60	2.8	0.9	-5.58	-5.9
120	-0.61	61	1.123746	10.68919	8.085502	61	3.08	0.93	-5.55	-5.88
122	-0.61	62	0.722408	10.84122	8.364312	62	3.08	0.96	-5.54	-5.76
124	-0.61	63	0.371237	11.02703	8.66171	63	3.13	0.99	-5.53	-5.49
126	-0.61	64	0.053512	11.12838	8.996283	64	3.41	1.01	-5.49	-5.62
128	-0.61	65	0.314381	11.21284	9.29368	65	3.47	1.03	-5.46	-5.85
130	-0.61	66	0.698997	11.39865	9.535316	66	3.47	1.05	-5.45	-5.77
132	-0.61	67	1.033445	11.55068	9.739777	67	3.36	1.07	-5.42	-5.76
134	-0.61	68	1.317726	11.66892	9.981413	68	3.46	1.1	-5.4	-5.88
136	-0.61	69	1.618729	11.75338	10.20446	69	3.45	1.12	-5.39	-5.77
138	-0.61	70	1.936455	11.93919	10.42751	70	3.14	1.14	-5.34	-5.91
140	-0.61	71	2.220736	12.07432	10.70632	71	3.36	1.15	-5.33	-5.88
142	-0.61	72	2.471572	12.14189	10.89219	72	3.33	1.16	-5.3	-5.95
144	-0.61	73	2.755853	12.20946	11.09665	73	3.67	1.18	-5.31	-5.53
146	-0.61	74	3.073579	12.27703	11.28253	74	3.76	1.2	-5.26	-5.66
148	-0.61	75	3.307692	12.44595	11.4684	75	3.68	1.22	-5.24	-5.86
150	-0.61	76	3.474916	12.51351	11.63569	76	3.77	1.24	-5.22	-5.9
152	-0.61	77	3.725753	12.61486	11.82156	77	3.57	1.26	-5.21	-5.94
154	-0.61	78	3.926421	12.73311	12.02602	78	3.69	1.28	-5.18	-6.01
156	-0.61	79	4.160535	12.81757	12.19331	79	3.76	1.3	-5.18	-5.82
158	-0.61	80	4.461538	12.90203	12.30483	80	3.84	1.31	-5.15	-5.9
160	-0.61	81	4.662207	13.02027	12.41636	81	3.85	1.34	-5.15	-5.77
162	-0.61	82	4.846154	13.05405	12.58364	82	4.1	1.35	-5.13	-5.73

164	-0.61	83	5.09699	13.07095	12.73234	83	3.8	1.37	-5.12	-5.76
166	-0.61	84	5.297659	13.13851	12.86245	84	4.03	1.4	-5.1	-5.69
168	-0.61	85	5.381271	13.22297	12.97398	85	4.13	1.42	-5.09	-5.68
170	-0.61	86	5.51505	13.23986	13.12268	86	4.02	1.44	-5.06	-5.73
172	-0.61	87	5.682274	13.34122	13.2342	87	3.93	1.45	-5.06	-5.74
174	-0.62	88	5.882943	13.45946	13.36431	88	3.83	1.47	-5.03	-5.88
176	-0.62	89	5.949833	13.49324	13.43866	89	3.44	1.49	-5.02	-5.9
178	-0.61	90	6.050167	13.51014	13.55019	90	3.34	1.51	-5	-5.99
180	-0.61	91	6.150502	13.54392	13.58736	91	3.43	1.52	-5	-5.98
182	-0.62	92	6.267559	13.64527	13.6803	92	3.29	1.53	-4.98	-5.92
184	-0.62	93	6.351171	13.62838	13.81041	93	3.44	1.54	-4.98	-5.94
186	-0.62	94	6.501672	13.64527	13.92193	94	3.38	1.56	-4.96	-5.93
188	-0.62	95	6.618729	13.67905	13.9777	95	3.4	1.57	-4.94	-5.98
190	-0.62	96	6.685619	13.71284	14.01487	96	3.3	1.58	-4.95	-5.96
192	-0.62	97	6.769231	13.74662	14.12639	97	3.3	1.6	-4.93	-5.93
194	-0.62	98	6.90301	13.74662	14.21933	98	3.38	1.61	-4.91	-5.94
196	-0.62	99	7.020067	13.84797	14.31227	99	3.27	1.64	-4.89	-5.93
198	-0.62	100	7.170569	13.86486	14.29368	100	3.13	1.65	-4.89	-5.94
200	-0.62	101	7.270903	13.84797	14.38662	101	3.22	1.66	-4.88	-5.73
202	-0.62	102	7.354515	13.84797	14.42379	102	3.1	1.68	-4.86	-5.83
204	-0.62	103	7.454849	13.88176	14.47955	103	3.37	1.69	-4.84	-5.93
206	-0.62	104	7.505017	13.86486	14.57249	104	3.43	1.71	-4.83	-5.85
208	-0.62	105	7.622074	13.84797	14.64684	105	3.21	1.73	-4.81	-5.85
210	-0.62	106	7.73913	13.89865	14.68401	106	3.35	1.74	-4.79	-5.85
212	-0.62	107	7.789298	13.94932	14.75836	107	3.12	1.74	-4.78	-5.89
214	-0.62	108	7.839465	14.05068	14.83271	108	3.18	1.75	-4.77	-5.97
216	-0.62	109	7.939799	14.08446	14.92565	109	3.22	1.77	-4.75	-5.99
218	-0.62	110	7.989967	14.11824	15.05576	110	3.31	1.79	-4.75	-5.98
220	-0.62	111	8.056856	14.15203	15.05576	111	3.55	1.8	-4.73	-5.95
222	-0.62	112	8.090301	14.2027	15.09294	112	3.13	1.82	-4.72	-5.93
224	-0.62	113	8.190635	14.21959	15.20446	113	3.36	1.83	-4.71	-5.94
226	-0.62	114	8.274247	14.23649	15.24164	114	3.72	1.85	-4.7	-5.8
228	-0.62	115	8.408027	14.2027	15.31599	115	3.7	1.87	-4.69	-5.84
230	-0.62	116	8.525084	14.23649	15.37175	116	4.34	1.89	-4.67	-5.78
232	-0.62	117	8.575251	14.25338	15.40892	117	4.44	1.9	-4.66	-5.86
234	-0.62	118	8.591973	14.27027	15.39033	118	4.27	1.92	-4.64	-5.88
236	-0.62	119	8.70903	14.32095	15.37175	119	4.53	1.93	-4.64	-5.87
238	-0.62	120	8.792642	14.32095	15.4461	120	4.32	1.94	-4.63	-5.75
240	-0.62	121	8.809365	14.27027	15.57621	121	4.41	1.96	-4.62	-5.78
242	-0.62	122	8.926421	14.25338	15.5948	122	4.36	1.98	-4.61	-5.79
244	-0.62	123	8.926421	14.2027	15.61338	123	4.36	1.99	-4.61	-5.78
246	-0.62	124	8.976589	14.21959	15.65056	124	4.08	2	-4.6	-5.77
248	-0.62	125	9.026756	14.23649	15.61338	125	3.88	2.02	-4.59	-5.8
250	-0.62	126	9.110368	14.25338	15.63197	126	3.78	2.02	-4.59	-5.79
252	-0.62	127	9.12709	14.28716	15.66914	127	3.92	2.04	-4.59	-5.66

254	-0.62	128	9.143813	14.25338	15.68773	128	4.11	2.08	-4.58	-5.59
256	-0.62	129	9.244147	14.25338	15.72491	129	4.03	2.08	-4.57	-5.52
258	-0.62	130	9.311037	14.21959	15.74349	130	3.49	2.1	-4.56	-5.56
260	-0.62	131	9.311037	14.2027	15.78067	131	3.86	2.11	-4.55	-5.57
262	-0.62	132	9.344482	14.27027	15.87361	132	3.9	2.12	-4.52	-5.63
264	-0.62	133	9.377926	14.30405	15.85502	133	3.67	2.14	-4.52	-5.7
266	-0.62	134	9.411371	14.35473	15.85502	134	3.66	2.13	-4.52	-5.76
268	-0.62	135	9.461538	14.37162	15.96654	135	4	2.14	-4.51	-5.71
270	-0.62	136	9.528428	14.30405	15.98513	136	4.23	2.17	-4.48	-5.64
272	-0.62	137	9.61204	14.33784	15.98513	137	3.76	2.18	-4.47	-5.65
274	-0.62	138	9.712375	14.37162	16.0223	138	4.23	2.19	-4.46	-5.65
276	-0.62	139	9.745819	14.33784	16.09665	139	3.97	2.21	-4.44	-5.63
278	-0.62	140	9.745819	14.40541	16.07807	140	4.01	2.21	-4.44	-5.65
280	-0.62	141	9.745819	14.47297	16.13383	141	4.12	2.22	-4.45	-5.56
282	-0.63	142	9.795987	14.38851	16.171	142	3.93	2.24	-4.42	-5.6
284	-0.62	143	9.812709	14.38851	16.22677	143	4.05	2.25	-4.4	-5.7
286	-0.62	144	9.846154	14.38851	16.26394	144	4.2	2.26	-4.39	-5.71
288	-0.63	145	9.862876	14.37162	16.33829	145	3.93	2.28	-4.39	-5.63
290	-0.63	146	9.879599	14.40541	16.39405	146	3.75	2.28	-4.39	-5.65
292	-0.63	147	9.913043	14.40541	16.35688	147	3.66	2.3	-4.39	-5.62
294	-0.63	148	9.879599	14.37162	16.37546	148	3.86	2.31	-4.39	-5.49
296	-0.62	149	9.929766	14.33784	16.44981	149	4.14	2.33	-4.38	-5.4
298	-0.63	150	10.01338	14.32095	16.4684	150	4.27	2.35	-4.37	-5.34
300	-0.63	151	9.979933	14.33784	16.41264	151	4.33	2.37	-4.36	-5.32
302	-0.63	152	9.762542	14.38851	16.48699	152	4.22	2.38	-4.35	-5.17
304	-0.63	153	9.428094	14.4223	16.56134	153	4.3	2.4	-4.31	-5.32
306	-0.63	154	9.227425	14.37162	16.67286	154	4.32	2.43	-4.31	-5.33
308	-0.63	155	9.12709	14.33784	16.71004	155	4.32	2.44	-4.31	-5.21
310	-0.63	156	9.110368	14.33784	16.67286	156	4.46	2.44	-4.29	-5.3
312	-0.63	157	9.143813	14.32095	16.72862	157	4.59	2.45	-4.28	-5.39
314	-0.63	158	9.26087	14.37162	16.72862	158	4.41	2.46	-4.29	-5.29
316	-0.63	159	9.361204	14.40541	16.84015	159	4.69	2.47	-4.27	-5.33
318	-0.63	160	9.461538	14.38851	16.82156	160	4.71	2.48	-4.26	-5.29
320	-0.63	161	9.561873	14.35473	16.87732	161	4.8	2.48	-4.26	-5.36
322	-0.63	162	9.662207	14.37162	16.89591	162	4.58	2.5	-4.27	-5.23
324	-0.63	163	9.745819	14.40541	16.87732	163	4.66	2.51	-4.26	-5.17
326	-0.63	164	9.862876	14.33784	16.95167	164	4.81	2.52	-4.23	-5.33
328	-0.63	165	9.896321	14.37162	16.93309	165	4.62	2.53	-4.23	-5.38
330	-0.63	166	9.963211	14.4223	16.95167	166	4.9	2.54	-4.21	-5.43
332	-0.63	167	10.0301	14.4223	17.00743	167	4.1	2.54	-4.21	-5.45
334	-0.63	168	10.11371	14.43919	17.0632	168	4.26	2.55	-4.21	-5.44
336	-0.63	169	10.11371	14.45608	17.08178	169	4.31	2.56	-4.2	-5.44
338	-0.63	170	10.1806	14.52365	17.0632	170	3.87	2.57	-4.2	-5.41
340	-0.63	171	10.28094	14.52365	17.02602	171	4.14	2.58	-4.19	-5.37
342	-0.63	172	10.3311	14.52365	17.0632	172	4.27	2.58	-4.19	-5.37

344	-0.63	173	10.34783	14.50676	17.08178	173	4.33	2.59	-4.19	-5.27
346	-0.63	174	10.36455	14.48986	17.11896	174	3.88	2.6	-4.18	-5.28
348	-0.63	175	10.43144	14.52365	17.15613	175	3.9	2.61	-4.17	-5.27
350	-0.63	176	10.46488	14.48986	17.13755	176	3.75	2.61	-4.17	-5.23
352	-0.63	177	10.49833	14.45608	17.11896	177	3.92	2.62	-4.16	-5.28
354	-0.63	178	10.49833	14.47297	17.13755	178	4.1	2.63	-4.16	-5.19
356	-0.63	179	10.43144	14.48986	17.15613	179	4.14	2.64	-4.14	-5.27
358	-0.63	180	10.43144	14.47297	17.2119	180	3.83	2.65	-4.13	-5.31
360	-0.63	181	10.49833	14.47297	17.24907	181	3.85	2.66	-4.15	-5.32
362	-0.63	182	10.54849	14.50676	17.26766	182	4.04	2.66	-4.14	-5.31
364	-0.63	183	10.59866	14.48986	17.30483	183	4.32	2.67	-4.14	-5.16
366	-0.63	184	10.63211	14.52365	17.28625	184	4.26	2.68	-4.15	-5.11
368	-0.63	185	10.63211	14.48986	17.24907	185	4.31	2.68	-4.16	-5.07
370	-0.63	186	10.63211	14.43919	17.26766	186	4.47	2.69	-4.14	-5.07
372	-0.63	187	10.66555	14.38851	17.32342	187	4.26	2.71	-4.14	-5.02
374	-0.63	188	10.71572	14.33784	17.36059	188	4.71	2.71	-4.15	-4.92
376	-0.63	189	10.73244	14.40541	17.32342	189	4.26	2.72	-4.13	-4.85
378	-0.63	190	10.79933	14.35473	17.23048	190	4.51	2.74	-4.12	-4.89
380	-0.63	191	10.81605	14.37162	17.30483	191	4.28	2.75	-4.11	-4.9
382	-0.63	192	10.83278	14.4223	17.34201	192	4.33	2.74	-4.1	-4.95
384	-0.63	193	10.88294	14.45608	17.32342	193	4.55	2.75	-4.11	-4.98
386	-0.63	194	10.93311	14.40541	17.37918	194	4.28	2.75	-4.1	-4.97
388	-0.63	195	10.94983	14.32095	17.41636	195	4.08	2.76	-4.1	-4.94
390	-0.63	196	10.96656	14.35473	17.45353	196	4.18	2.77	-4.08	-5.05
392	-0.63	197	11.03344	14.35473	17.49071	197	4.33	2.78	-4.09	-4.93
394	-0.63	198	11.01672	14.33784	17.47212	198	4.47	2.79	-4.08	-4.86
396	-0.63	199	11.06689	14.37162	17.49071	199	4.63	2.8	-4.1	-4.66
398	-0.63	200	11.06689	14.38851	17.49071	200	4.72	2.81	-4.07	-4.7
400	-0.63	201	11.10033	14.33784	17.47212	201	4.41	2.82	-4.05	-4.81
402	-0.63	202	11.08361	14.38851	17.47212	202	4.61	2.83	-4.04	-4.86
404	-0.63	203	11.10033	14.40541	17.47212	203	4.83	2.84	-4.03	-4.85
406	-0.63	204	11.10033	14.4223	17.54647	204	4.96	2.84	-4.03	-4.87
408	-0.63	205	11.1505	14.38851	17.63941	205	4.94	2.85	-4.03	-4.83
410	-0.63	206	11.20067	14.37162	17.63941	206	4.94	2.86	-4.03	-4.79
412	-0.63	207	11.21739	14.38851	17.58364	207	4.95	2.87	-4.03	-4.73
414	-0.63	208	11.26756	14.37162	17.62082	208	5.04	2.87	-4.01	-4.81
416	-0.63	209	11.26756	14.35473	17.65799	209	5.08	2.88	-4.01	-4.82
418	-0.63	210	11.26756	14.37162	17.65799	210	5.1	2.88	-4.01	-4.76
420	-0.63	211	11.301	14.30405	17.63941	211	5.03	2.89	-4	-4.75
422	-0.63	212	11.35117	14.37162	17.65799	212	5.16	2.9	-4	-4.65
424	-0.63	213	11.40134	14.37162	17.69517	213	5.24	2.91	-3.98	-4.7
426	-0.63	214	11.36789	14.35473	17.67658	214	5.21	2.92	-3.97	-4.76
428	-0.63	215	11.36789	14.38851	17.65799	215	5.11	2.93	-3.96	-4.76
430	-0.63	216	11.38462	14.33784	17.67658	216	5.02	2.93	-3.95	-4.85
432	-0.63	217	11.36789	14.32095	17.69517	217	4.79	2.94	-3.94	-4.88

434	-0.63	218	11.33445	14.38851	17.65799	218	4.95	2.95	-3.93	-4.95
436	-0.63	219	11.38462	14.38851	17.69517	219	4.95	2.94	-3.94	-4.95
438	-0.63	220	11.43478	14.40541	17.75093	220	4.85	2.96	-3.92	-4.91
440	-0.63	221	11.43478	14.40541	17.82528	221	5	2.97	-3.92	-4.89
442	-0.63	222	11.41806	14.4223	17.84387	222	4.88	2.97	-3.91	-4.91
444	-0.63	223	11.41806	14.45608	17.82528	223	4.83	2.98	-3.91	-4.94
446	-0.63	224	11.46823	14.47297	17.82528	224	4.78	2.99	-3.93	-4.81
448	-0.63	225	11.46823	14.4223	17.86245	225	4.79	2.99	-3.9	-4.84
450	-0.63	226	11.43478	14.40541	17.88104	226	4.75	2.99	-3.89	-5.01
452	-0.63	227	11.48495	14.38851	17.86245	227	4.78	3	-3.9	-5
454	-0.63	228	11.48495	14.45608	17.88104	228	4.66	3.01	-3.89	-5.04
456	-0.63	229	11.50167	14.52365	17.91822	229	4.47	3.01	-3.9	-5.06
458	-0.63	230	11.55184	14.57432	17.91822	230	4.55	3.01	-3.89	-5.03
460	-0.63	231	11.53512	14.57432	17.9368	231	4.48	3.02	-3.88	-5.05
462	-0.63	232	11.50167	14.59122	17.89963	232	4.24	3.03	-3.88	-5.03
464	-0.63	233	11.51839	14.52365	17.89963	233	4.14	3.04	-3.87	-5.02
466	-0.63	234	11.50167	14.55743	17.89963	234	4.54	3.03	-3.87	-5.03
468	-0.63	235	11.58528	14.54054	17.91822	235	4.48	3.04	-3.87	-5.01
470	-0.63	236	11.55184	14.52365	17.91822	236	4.56	3.04	-3.86	-5.05
472	-0.63	237	11.53512	14.55743	17.91822	237	4.5	3.06	-3.86	-4.99
474	-0.63	238	11.50167	14.50676	17.97398	238	4.5	3.06	-3.84	-5
476	-0.63	239	11.46823	14.52365	17.95539	239	4.35	3.07	-3.83	-5.05
478	-0.63	240	11.51839	14.54054	17.91822	240	4.36	3.08	-3.83	-5.05
480	-0.63	241	11.53512	14.57432	17.95539	241	4.35	3.08	-3.83	-5.04
482	-0.63	242	11.58528	14.59122	17.9368	242	4.36	3.09	-3.84	-4.97
484	-0.63	243	11.60201	14.55743	17.9368	243	4.43	3.09	-3.82	-4.98
486	-0.63	244	11.56856	14.54054	17.89963	244	4.54	3.1	-3.85	-4.8
488	-0.63	245	11.60201	14.52365	17.95539	245	4.42	3.1	-3.84	-4.84
490	-0.63	246	11.58528	14.45608	18.02974	246	4.42	3.11	-3.83	-4.87
492	-0.63	247	11.58528	14.47297	18.01115	247	4.14	3.11	-3.84	-4.85
494	-0.63	248	11.56856	14.43919	17.95539	248	4.12	3.12	-3.83	-4.85
496	-0.63	249	11.61873	14.40541	17.95539	249	4.01	3.13	-3.82	-4.88
498	-0.63	250	11.6689	14.45608	17.95539	250	3.96	3.14	-3.81	-4.94
500	-0.63	251	11.61873	14.47297	17.9368	251	4.04	3.13	-3.81	-4.92
502	-0.63	252	11.65217	14.45608	17.95539	252	4.24	3.14	-3.8	-4.91
504	-0.63	253	11.65217	14.50676	17.95539	253	4.02	3.14	-3.79	-4.95
506	-0.63	254	11.6689	14.47297	18.01115	254	4.15	3.15	-3.81	-4.83
508	-0.63	255	11.71906	14.47297	18.10409	255	3.94	3.15	-3.79	-4.84
510	-0.63	256	11.6689	14.48986	18.0855	256	3.95	3.16	-3.78	-4.94
512	-0.63	257	11.68562	14.47297	18.04833	257	4.03	3.16	-3.77	-5
514	-0.63	258	11.6689	14.50676	18.04833	258	4.09	3.17	-3.78	-4.9
516	-0.63	259	11.61873	14.43919	18.10409	259	3.97	3.17	-3.76	-4.89
518	-0.63	260	11.61873	14.45608	18.01115	260	4.17	3.18	-3.76	-4.9
520	-0.63	261	11.63545	14.45608	17.97398	261	4.11	3.18	-3.75	-4.88
522	-0.63	262	11.61873	14.45608	18.01115	262	4.11	3.18	-3.73	-4.95

524	-0.63	263	11.65217	14.50676	17.99257	263	4.14	3.18	-3.73	-4.95
526	-0.63	264	11.6689	14.55743	17.99257	264	4.13	3.18	-3.73	-4.94
528	-0.63	265	11.68562	14.54054	18.04833	265	4.19	3.18	-3.72	-4.97
530	-0.63	266	11.71906	14.55743	18.10409	266	4.19	3.19	-3.73	-4.95
532	-0.63	267	11.76923	14.52365	18.10409	267	4.1	3.19	-3.73	-4.95
534	-0.63	268	11.80268	14.50676	18.0855	268	4.25	3.2	-3.72	-4.91
536	-0.63	269	11.80268	14.45608	18.0855	269	4.34	3.21	-3.7	-4.89
538	-0.63	270	11.8194	14.48986	18.0855	270	4.28	3.22	-3.7	-4.86
540	-0.63	271	11.8194	14.50676	18.10409	271	4.27	3.22	-3.69	-4.87
542	-0.63	272	11.83612	14.57432	18.19703	272	4.31	3.22	-3.69	-4.86
544	-0.63	273	11.8194	14.55743	18.0855	273	4.24	3.23	-3.69	-4.86
546	-0.63	274	11.80268	14.48986	18.04833	274	4.21	3.24	-3.68	-4.87
548	-0.63	275	11.78595	14.48986	18.14126	275	4.03	3.24	-3.69	-4.83
550	-0.63	276	11.83612	14.45608	18.10409	276	3.96	3.25	-3.69	-4.74
552	-0.63	277	11.80268	14.50676	18.10409	277	4.26	3.25	-3.68	-4.79
554	-0.63	278	11.80268	14.55743	18.06691	278	4.19	3.26	-3.67	-4.84
556	-0.63	279	11.80268	14.60811	18.0855	279	4.11	3.27	-3.67	-4.86
558	-0.63	280	11.83612	14.67568	18.14126	280	4.23	3.27	-3.67	-4.85
560	-0.63	281	11.78595	14.59122	18.14126	281	4.31	3.27	-3.67	-4.85
562	-0.63	282	11.85284	14.59122	18.15985	282	4.15	3.28	-3.67	-4.83
564	-0.64	283	11.88629	14.54054	18.14126	283	4.2	3.28	-3.66	-4.81
566	-0.63	284	11.86957	14.57432	18.0855	284	4.22	3.29	-3.65	-4.8
568	-0.63	285	11.85284	14.57432	18.12268	285	4.07	3.29	-3.66	-4.79
570	-0.64	286	11.90301	14.54054	18.19703	286	4.11	3.29	-3.66	-4.78
572	-0.63	287	11.86957	14.59122	18.21561	287	4.13	3.3	-3.65	-4.8
574	-0.63	288	11.90301	14.57432	18.12268	288	4.09	3.3	-3.65	-4.77
576	-0.63	289	11.90301	14.59122	18.12268	289	4.18	3.3	-3.66	-4.74
578	-0.63	290	11.85284	14.55743	18.19703	290	4.33	3.3	-3.64	-4.76
580	-0.64	291	11.83612	14.54054	18.21561	291	4.18	3.31	-3.64	-4.76
582	-0.63	292	11.88629	14.55743	18.2342	292	4.19	3.32	-3.63	-4.77
584	-0.63	293	11.91973	14.55743	18.19703	293	4.24	3.32	-3.63	-4.8
586	-0.63	294	11.93645	14.59122	18.12268	294	4.05	3.33	-3.63	-4.79
588	-0.63	295	11.93645	14.55743	18.15985	295	4	3.33	-3.64	-4.79
590	-0.63	296	11.93645	14.54054	18.12268	296	4.11	3.34	-3.63	-4.81
592	-0.63	297	11.88629	14.54054	18.19703	297	4.15	3.34	-3.63	-4.81
594	-0.63	298	11.88629	14.59122	18.14126	298	4.04	3.34	-3.64	-4.76
596	-0.63	299	11.93645	14.60811	18.17844	299	3.98	3.34	-3.64	-4.76
598	-0.64	300	11.93645	14.625	18.19703	300	3.78	3.35	-3.63	-4.79
600	-0.64	301	11.88629	14.60811	18.17844	301	3.99	3.36	-3.63	-4.8
602	-0.63	302	11.85284	14.57432	18.19703	302	4.21	3.36	-3.62	-4.8
604	-0.64	303	11.85284	14.60811	18.25279	303	4.07	3.37	-3.62	-4.8
606	-0.63	304	11.88629	14.59122	18.19703	304	4.02	3.36	-3.62	-4.82
608	-0.63	305	11.91973	14.59122	18.19703	305	4.08	3.35	-3.63	-4.74
610	-0.63	306	11.91973	14.59122	18.25279	306	4	3.36	-3.62	-4.71
612	-0.63	307	11.93645	14.64189	18.2342	307	3.97	3.36	-3.63	-4.66

614	-0.63	308	11.93645	14.60811	18.21561	308	3.96	3.37	-3.63	-4.61
616	-0.63	309	11.95318	14.55743	18.25279	309	3.95	3.38	-3.62	-4.67
618	-0.63	310	11.9699	14.54054	18.27138	310	4.08	3.38	-3.62	-4.73
620	-0.63	311	12.00334	14.55743	18.28996	311	4.09	3.38	-3.62	-4.71
622	-0.63	312	11.95318	14.625	18.28996	312	4.1	3.39	-3.61	-4.8
624	-0.64	313	11.95318	14.60811	18.2342	313	3.93	3.39	-3.61	-4.8
626	-0.63	314	11.98662	14.55743	18.27138	314	4.13	3.4	-3.6	-4.79
628	-0.64	315	11.9699	14.59122	18.27138	315	4.13	3.41	-3.6	-4.83
630	-0.64	316	11.93645	14.59122	18.28996	316	4.23	3.41	-3.61	-4.81
632	-0.63	317	11.93645	14.52365	18.27138	317	4.18	3.41	-3.6	-4.8
634	-0.64	318	11.93645	14.52365	18.27138	318	4.38	3.41	-3.59	-4.84
636	-0.63	319	11.9699	14.54054	18.25279	319	4.31	3.42	-3.59	-4.87
638	-0.63	320	11.98662	14.59122	18.2342	320	4.13	3.41	-3.59	-4.87
640	-0.64	321	11.95318	14.625	18.21561	321	4.21	3.43	-3.59	-4.81
642	-0.63	322	11.9699	14.67568	18.27138	322	4.15	3.43	-3.58	-4.83
644	-0.64	323	11.93645	14.69257	18.28996	323	4.21	3.43	-3.58	-4.86
646	-0.64	324	11.93645	14.64189	18.32714	324	3.95	3.43	-3.58	-4.77
648	-0.64	325	11.93645	14.64189	18.27138	325	4.05	3.43	-3.58	-4.77
650	-0.64	326	12.00334	14.67568	18.25279	326	4.03	3.44	-3.58	-4.77
652	-0.63	327	11.9699	14.67568	18.27138	327	4.12	3.44	-3.58	-4.78
654	-0.64	328	11.95318	14.65878	18.32714	328	4.18	3.44	-3.58	-4.76
656	-0.63	329	11.95318	14.69257	18.36431	329	4.36	3.45	-3.57	-4.79
658	-0.63	330	11.93645	14.69257	18.40149	330	4.32	3.46	-3.56	-4.79
660	-0.64	331	11.91973	14.69257	18.42007	331	4.17	3.47	-3.55	-4.82
662	-0.64	332	11.95318	14.67568	18.34572	332	4.53	3.47	-3.55	-4.81
664	-0.64	333	11.9699	14.69257	18.32714	333	4.46	3.47	-3.55	-4.81
666	-0.64	334	11.95318	14.69257	18.32714	334	4.47	3.47	-3.55	-4.8
668	-0.64	335	11.91973	14.69257	18.36431	335	4.43	3.49	-3.57	-4.53
670	-0.64	336	11.91973	14.625	18.34572	336	4.88	3.49	-3.54	-4.69
672	-0.63	337	11.93645	14.64189	18.30855	337	4.5	3.49	-3.54	-4.78
674	-0.64	338	11.98662	14.70946	18.36431	338	4.72	3.49	-3.54	-4.76
676	-0.64	339	12.00334	14.67568	18.32714	339	4.35	3.5	-3.54	-4.74
678	-0.64	340	12.00334	14.625	18.36431	340	4.49	3.5	-3.53	-4.74
680	-0.64	341	12.05351	14.64189	18.36431	341	4.44	3.5	-3.52	-4.78
682	-0.63	342	12.02007	14.65878	18.42007	342	4.52	3.51	-3.52	-4.81
684	-0.64	343	11.98662	14.64189	18.40149	343	4.45	3.51	-3.51	-4.8
686	-0.64	344	11.98662	14.69257	18.40149	344	4.35	3.52	-3.5	-4.8
688	-0.64	345	11.95318	14.69257	18.40149	345	4.41	3.52	-3.5	-4.8
690	-0.64	346	11.88629	14.69257	18.43866	346	4.42	3.52	-3.49	-4.81
692	-0.64	347	11.90301	14.70946	18.42007	347	4.61	3.53	-3.48	-4.82
694	-0.64	348	11.9699	14.72635	18.40149	348	4.71	3.53	-3.49	-4.78
696	-0.64	349	11.9699	14.67568	18.40149	349	4.47	3.52	-3.48	-4.81
698	-0.64	350	12.00334	14.70946	18.40149	350	4.41	3.53	-3.48	-4.83
700	-0.64	351	11.98662	14.69257	18.40149	351	4.45	3.53	-3.48	-4.83
702	-0.64	352	11.9699	14.65878	18.42007	352	4.59	3.53	-3.48	-4.76

704	-0.64	353	11.95318	14.67568	18.42007	353	4.62	3.54	-3.46	-4.75
706	-0.64	354	11.98662	14.625	18.42007	354	4.82	3.54	-3.46	-4.74
708	-0.64	355	12.03679	14.64189	18.43866	355	4.66	3.53	-3.46	-4.77
710	-0.64	356	12.00334	14.67568	18.42007	356	4.68	3.53	-3.46	-4.76
712	-0.64	357	12.07023	14.65878	18.43866	357	4.64	3.54	-3.46	-4.75
714	-0.64	358	12.02007	14.69257	18.42007	358	4.86	3.55	-3.46	-4.74
716	-0.64	359	12.03679	14.70946	18.42007	359	4.64	3.55	-3.46	-4.71
718	-0.64	360	12.00334	14.72635	18.42007	360	4.54	3.55	-3.45	-4.79
720	-0.64	361	11.95318	14.69257	18.43866	361	4.65	3.55	-3.44	-4.81
722	-0.64	362	12.00334	14.70946	18.43866	362	4.82	3.57	-3.44	-4.75
724	-0.64	363	12.02007	14.67568	18.40149	363	4.77	3.57	-3.44	-4.75
726	-0.64	364	12.02007	14.65878	18.40149	364	4.79	3.57	-3.44	-4.76
		365	11.98662	14.67568	18.40149	365	4.69	3.58	-3.45	-4.69
		366	12.02007	14.59122	18.40149	366	4.7	3.58	-3.45	-4.51
		367	12.03679	14.60811	18.43866	367	4.79	3.59	-3.43	-4.68
		368	12.05351	14.57432	18.42007	368	4.67	3.59	-3.43	-4.7
		369	12.03679	14.57432	18.45725	369	4.69	3.6	-3.42	-4.74
		370	12.02007	14.625	18.3829	370	4.7	3.6	-3.43	-4.75
		371	12.07023	14.64189	18.43866	371	4.59	3.61	-3.46	-4.52
		372	12.17057	14.60811	18.45725	372	4.7	3.62	-3.44	-4.49
		373	12.17057	14.625	18.49442	373	4.82	3.63	-3.43	-4.61
		374	12.10368	14.59122	18.45725	374	4.7	3.63	-3.42	-4.67
		375	12.08696	14.54054	18.43866	375	4.79	3.63	-3.41	-4.68
		376	12.07023	14.54054	18.43866	376	4.75	3.63	-3.41	-4.68
		377	12.05351	14.59122	18.40149	377	4.89	3.64	-3.41	-4.68
		378	12.00334	14.54054	18.43866	378	4.89	3.65	-3.41	-4.63
		379	12.03679	14.55743	18.43866	379	4.92	3.66	-3.41	-4.66
		380	12.02007	14.52365	18.43866	380	4.85	3.66	-3.41	-4.64
		381	12.05351	14.52365	18.47584	381	4.69	3.67	-3.43	-4.59
		382	12.08696	14.57432	18.51301	382	4.72	3.68	-3.43	-4.39
		383	12.08696	14.54054	18.49442	383	4.86	3.68	-3.41	-4.4
		384	12.05351	14.52365	18.43866	384	4.85	3.68	-3.42	-4.47
		385	12.05351	14.54054	18.40149	385	4.7	3.7	-3.43	-4.33
		386	12.07023	14.54054	18.43866	386	4.69	3.7	-3.44	-4.26
		387	12.08696	14.48986	18.45725	387	4.71	3.7	-3.42	-4.3
		388	12.10368	14.45608	18.43866	388	4.69	3.71	-3.41	-4.3
		389	12.18729	14.52365	18.43866	389	4.81	3.72	-3.4	-4.31
		390	12.18729	14.55743	18.45725	390	4.7	3.71	-3.4	-4.3
		391	12.15385	14.55743	18.42007	391	4.82	3.71	-3.38	-4.43
		392	12.17057	14.52365	18.47584	392	4.94	3.72	-3.38	-4.46
		393	12.15385	14.50676	18.49442	393	4.74	3.73	-3.4	-4.39
		394	12.10368	14.54054	18.45725	394	4.65	3.72	-3.37	-4.4
		395	12.1204	14.54054	18.49442	395	4.6	3.73	-3.39	-4.4
		396	12.17057	14.55743	18.5316	396	4.59	3.73	-3.37	-4.42
		397	12.15385	14.57432	18.47584	397	4.56	3.74	-3.37	-4.39

398	12.10368	14.55743	18.5316	398	4.61	3.74	-3.36	-4.38
399	12.13712	14.59122	18.62454	399	4.61	3.75	-3.36	-4.38
400	12.1204	14.64189	18.60595	400	4.59	3.75	-3.36	-4.35
401	12.13712	14.64189	18.56877	401	4.72	3.75	-3.36	-4.38
402	12.17057	14.57432	18.5316	402	4.74	3.76	-3.37	-4.29
403	12.18729	14.54054	18.49442	403	4.69	3.77	-3.35	-4.35
404	12.22074	14.54054	18.5316	404	4.73	3.78	-3.35	-4.39
405	12.23746	14.59122	18.51301	405	4.64	3.79	-3.34	-4.39
406	12.20401	14.59122	18.51301	406	4.41	3.8	-3.36	-4.32
407	12.20401	14.57432	18.51301	407	4.72	3.79	-3.35	-4.34
408	12.15385	14.60811	18.55019	408	4.66	3.8	-3.35	-4.24
409	12.18729	14.59122	18.58736	409	4.67	3.8	-3.34	-4.29
410	12.23746	14.52365	18.56877	410	4.75	3.8	-3.35	-4.29
411	12.25418	14.59122	18.58736	411	4.6	3.79	-3.33	-4.41
412	12.20401	14.57432	18.56877	412	4.72	3.79	-3.33	-4.36
413	12.18729	14.52365	18.56877	413	4.57	3.8	-3.32	-4.42
414	12.20401	14.50676	18.56877	414	4.63	3.81	-3.31	-4.44
415	12.20401	14.55743	18.5316	415	4.61	3.81	-3.32	-4.41
416	12.17057	14.57432	18.55019	416	4.6	3.82	-3.32	-4.33
417	12.17057	14.57432	18.64312	417	4.62	3.82	-3.33	-4.37
418	12.20401	14.625	18.66171	418	4.74	3.82	-3.31	-4.39
419	12.22074	14.67568	18.62454	419	4.59	3.84	-3.32	-4.41
420	12.23746	14.69257	18.64312	420	4.75	3.83	-3.3	-4.43
421	12.23746	14.69257	18.64312	421	4.74	3.85	-3.31	-4.43
422	12.23746	14.69257	18.64312	422	4.71	3.85	-3.32	-4.31
423	12.25418	14.60811	18.6803	423	4.82	3.84	-3.33	-4.24
424	12.23746	14.625	18.58736	424	4.77	3.85	-3.34	-4.21
425	12.22074	14.59122	18.56877	425	4.53	3.85	-3.32	-4.21
426	12.23746	14.57432	18.60595	426	4.8	3.85	-3.32	-4.24
427	12.18729	14.625	18.62454	427	4.6	3.86	-3.33	-4.31
428	12.18729	14.625	18.62454	428	4.49	3.88	-3.33	-4.27
429	12.20401	14.59122	18.64312	429	4.67	3.88	-3.33	-4.21
430	12.25418	14.54054	18.60595	430	4.73	3.88	-3.32	-4.28
431	12.23746	14.59122	18.60595	431	4.73	3.87	-3.32	-4.28
432	12.25418	14.59122	18.60595	432	4.58	3.87	-3.32	-4.31
433	12.2709	14.59122	18.64312	433	4.65	3.88	-3.31	-4.25
434	12.2709	14.625	18.62454	434	4.69	3.87	-3.31	-4.31
435	12.28763	14.57432	18.56877	435	4.65	3.88	-3.31	-4.28
436	12.25418	14.54054	18.66171	436	4.59	3.88	-3.29	-4.35
437	12.23746	14.55743	18.69888	437	4.67	3.89	-3.31	-4.22
438	12.2709	14.60811	18.69888	438	4.66	3.89	-3.29	-4.19
439	12.23746	14.54054	18.6803	439	4.66	3.89	-3.3	-4.23
440	12.23746	14.52365	18.62454	440	4.64	3.9	-3.29	-4.03
441	12.23746	14.55743	18.56877	441	4.84	3.9	-3.29	-4.09
442	12.20401	14.55743	18.62454	442	4.61	3.9	-3.27	-4.17

443	12.2709	14.54054	18.64312	443	4.64	3.92	-3.28	-4.17
444	12.28763	14.55743	18.64312	444	4.51	3.91	-3.25	-4.25
445	12.30435	14.625	18.69888	445	4.72	3.91	-3.26	-4.28
446	12.28763	14.625	18.69888	446	4.83	3.91	-3.26	-4.23
447	12.25418	14.67568	18.71747	447	4.64	3.92	-3.24	-4.3
448	12.25418	14.59122	18.71747	448	4.63	3.92	-3.26	-4.26
449	12.25418	14.55743	18.64312	449	4.53	3.94	-3.27	-4.15
450	12.30435	14.55743	18.66171	450	4.71	3.93	-3.26	-4.18
451	12.25418	14.52365	18.66171	451	4.67	3.93	-3.26	-4.21
452	12.2709	14.50676	18.66171	452	4.63	3.93	-3.26	-4.19
453	12.30435	14.55743	18.6803	453	4.58	3.93	-3.26	-4.23
454	12.32107	14.625	18.64312	454	4.69	3.94	-3.25	-4.22
455	12.33779	14.625	18.66171	455	4.64	3.94	-3.26	-4.22
456	12.33779	14.625	18.73606	456	4.6	3.95	-3.26	-4.12
457	12.35452	14.57432	18.73606	457	4.82	3.95	-3.25	-4.03
458	12.32107	14.55743	18.69888	458	4.75	3.95	-3.24	-4.17
459	12.32107	14.64189	18.66171	459	4.79	3.96	-3.25	-4.11
460	12.35452	14.64189	18.64312	460	4.78	3.96	-3.24	-4.2
461	12.33779	14.65878	18.6803	461	4.82	3.97	-3.23	-4.18
462	12.32107	14.625	18.71747	462	4.88	3.97	-3.23	-4.23
463	12.32107	14.625	18.73606	463	4.71	3.99	-3.24	-4.16
464	12.35452	14.59122	18.77323	464	4.82	3.98	-3.23	-4.17
465	12.30435	14.57432	18.77323	465	4.83	3.98	-3.23	-4.17
466	12.30435	14.59122	18.6803	466	4.78	3.98	-3.24	-4.19
467	12.32107	14.60811	18.66171	467	4.82	3.99	-3.23	-4.17
468	12.37124	14.55743	18.62454	468	4.8	3.98	-3.23	-4.17
469	12.32107	14.59122	18.60595	469	4.72	3.99	-3.23	-4.13
470	12.25418	14.57432	18.71747	470	4.9	4	-3.22	-4.16
471	12.30435	14.59122	18.71747	471	4.87	4	-3.21	-4.21
472	12.33779	14.59122	18.6803	472	4.8	4	-3.22	-4.2
473	12.32107	14.625	18.64312	473	4.85	4	-3.22	-4.22
474	12.33779	14.625	18.6803	474	4.88	4.01	-3.22	-4.23
475	12.35452	14.59122	18.69888	475	4.88	4	-3.22	-4.23
476	12.32107	14.60811	18.71747	476	4.82	4	-3.24	-4.21
477	12.40468	14.59122	18.71747	477	4.79	4	-3.24	-4.11
478	12.4214	14.625	18.66171	478	4.81	4	-3.23	-4.13
479	12.33779	14.67568	18.6803	479	4.86	4	-3.23	-4.14
480	12.35452	14.65878	18.69888	480	4.83	4.01	-3.22	-4.22
481	12.35452	14.60811	18.73606	481	4.76	4.01	-3.24	-4.2
482	12.35452	14.60811	18.71747	482	4.84	4.01	-3.23	-4.21
483	12.35452	14.60811	18.73606	483	5.01	4.01	-3.21	-4.29
484	12.30435	14.625	18.73606	484	4.99	4.01	-3.22	-4.33
485	12.30435	14.64189	18.71747	485	4.9	4	-3.22	-4.35
486	12.28763	14.625	18.75465	486	4.87	4.01	-3.23	-4.29
487	12.33779	14.625	18.69888	487	4.87	4.03	-3.23	-4.21

488	12.30435	14.67568	18.73606	488	4.77	4.03	-3.23	-4.2
489	12.30435	14.67568	18.71747	489	4.99	4.02	-3.23	-4.24
490	12.33779	14.65878	18.73606	490	4.99	4.02	-3.22	-4.29
491	12.35452	14.625	18.73606	491	4.96	4.02	-3.21	-4.34
492	12.35452	14.625	18.71747	492	5.02	4.02	-3.21	-4.37
493	12.35452	14.625	18.81041	493	5.01	4.02	-3.21	-4.36
494	12.33779	14.64189	18.77323	494	4.82	4.03	-3.21	-4.3
495	12.35452	14.64189	18.79182	495	4.86	4.03	-3.21	-4.27
496	12.33779	14.65878	18.73606	496	4.82	4.03	-3.21	-4.22
497	12.37124	14.67568	18.73606	497	4.85	4.03	-3.21	-4.23
498	12.37124	14.65878	18.77323	498	4.87	4.03	-3.21	-4.26
499	12.38796	14.59122	18.77323	499	4.86	4.04	-3.2	-4.19
500	12.37124	14.59122	18.79182	500	4.96	4.04	-3.2	-4.19
501	12.40468	14.625	18.77323	501	4.98	4.03	-3.2	-4.24
502	12.37124	14.65878	18.81041	502	4.98	4.04	-3.2	-4.19
503	12.32107	14.67568	18.79182	503	4.93	4.03	-3.19	-4.2
504	12.2709	14.65878	18.71747	504	4.71	4.04	-3.19	-4.24
505	12.30435	14.64189	18.77323	505	4.85	4.04	-3.18	-4.26
506	12.30435	14.64189	18.77323	506	4.89	4.05	-3.17	-4.27
507	12.35452	14.60811	18.75465	507	4.87	4.04	-3.18	-4.29
508	12.38796	14.59122	18.73606	508	4.95	4.04	-3.17	-4.36
509	12.32107	14.59122	18.73606	509	4.76	4.05	-3.16	-4.39
510	12.28763	14.65878	18.77323	510	4.82	4.04	-3.17	-4.38
511	12.33779	14.70946	18.75465	511	4.84	4.04	-3.17	-4.41
512	12.35452	14.65878	18.71747	512	4.78	4.04	-3.17	-4.41
513	12.33779	14.67568	18.75465	513	4.73	4.04	-3.16	-4.37
514	12.38796	14.74324	18.81041	514	4.85	4.05	-3.15	-4.37
515	12.38796	14.70946	18.75465	515	4.8	4.05	-3.15	-4.33
516	12.35452	14.69257	18.71747	516	4.83	4.05	-3.16	-4.32
517	12.35452	14.69257	18.75465	517	4.88	4.06	-3.14	-4.31
518	12.37124	14.70946	18.73606	518	4.73	4.05	-3.15	-4.29
519	12.37124	14.65878	18.71747	519	4.88	4.05	-3.16	-4.27
520	12.33779	14.625	18.73606	520	4.77	4.05	-3.16	-4.27
521	12.40468	14.65878	18.73606	521	4.61	4.05	-3.18	-4.21
522	12.40468	14.64189	18.71747	522	4.65	4.06	-3.18	-4.16
523	12.37124	14.625	18.77323	523	4.78	4.07	-3.19	-4.12
524	12.38796	14.64189	18.77323	524	4.76	4.07	-3.18	-4.14
525	12.38796	14.625	18.75465	525	4.65	4.07	-3.19	-4.13
526	12.37124	14.60811	18.73606	526	4.83	4.07	-3.18	-4.17
527	12.35452	14.67568	18.73606	527	4.8	4.08	-3.17	-4.17
528	12.37124	14.67568	18.6803	528	4.68	4.09	-3.16	-4.18
529	12.38796	14.65878	18.71747	529	4.85	4.09	-3.15	-4.2
530	12.33779	14.59122	18.73606	530	4.78	4.08	-3.16	-4.24
531	12.37124	14.64189	18.73606	531	4.83	4.08	-3.15	-4.3
532	12.37124	14.65878	18.75465	532	4.58	4.07	-3.16	-4.24

533	12.35452	14.64189	18.77323	533	4.74	4.08	-3.17	-4.19
534	12.30435	14.67568	18.77323	534	4.72	4.08	-3.16	-4.16
535	12.33779	14.625	18.71747	535	4.75	4.08	-3.16	-4.19
536	12.40468	14.67568	18.66171	536	4.73	4.08	-3.15	-4.2
537	12.35452	14.65878	18.73606	537	4.8	4.09	-3.15	-4.23
538	12.40468	14.65878	18.77323	538	4.69	4.09	-3.15	-4.17
539	12.38796	14.64189	18.77323	539	4.91	4.1	-3.14	-4.2
540	12.4214	14.625	18.75465	540	4.86	4.1	-3.13	-4.26
541	12.4214	14.64189	18.75465	541	4.7	4.1	-3.13	-4.27
542	12.4214	14.65878	18.79182	542	4.87	4.09	-3.13	-4.31
543	12.40468	14.65878	18.77323	543	4.83	4.09	-3.14	-4.22
544	12.37124	14.65878	18.77323	544	4.83	4.09	-3.13	-4.21
545	12.38796	14.70946	18.77323	545	4.81	4.1	-3.12	-4.24
546	12.37124	14.67568	18.81041	546	4.83	4.1	-3.13	-4.27
547	12.35452	14.67568	18.71747	547	4.64	4.1	-3.14	-4.19
548	12.37124	14.65878	18.6803	548	4.61	4.11	-3.14	-4.06
549	12.28763	14.50676	18.6803	549	4.97	4.11	-3.11	-4.1
550	12.23746	14.40541	18.73606	550	5.14	4.11	-3.13	-4.17
551	12.22074	14.40541	18.71747	551	5.08	4.11	-3.12	-4.16
552	12.18729	14.48986	18.66171	552	4.72	4.12	-3.12	-4.12
553	12.17057	14.52365	18.64312	553	4.69	4.11	-3.13	-4.12
554	12.22074	14.57432	18.66171	554	4.8	4.12	-3.13	-4.04
555	12.25418	14.59122	18.71747	555	4.94	4.12	-3.11	-4.05
556	12.2709	14.59122	18.77323	556	4.89	4.13	-3.12	-4.07
557	12.30435	14.54054	18.73606	557	4.66	4.14	-3.11	-4.05
558	12.30435	14.55743	18.77323	558	4.54	4.14	-3.12	-4.03
559	12.32107	14.60811	18.75465	559	4.84	4.14	-3.11	-4.04
560	12.33779	14.60811	18.69888	560	4.84	4.14	-3.11	-4.03
561	12.30435	14.64189	18.69888	561	5	4.14	-3.11	-4.09
562	12.35452	14.625	18.79182	562	4.69	4.14	-3.12	-3.97
563	12.32107	14.64189	18.81041	563	4.77	4.14	-3.13	-3.94
564	12.38796	14.65878	18.77323	564	5	4.13	-3.11	-4.13
565	12.45485	14.65878	18.79182	565	4.78	4.13	-3.12	-4.17
566	12.37124	14.60811	18.75465	566	4.72	4.15	-3.12	-4.03
567	12.38796	14.625	18.81041	567	4.65	4.16	-3.1	-4.04
568	12.40468	14.60811	18.829	568	4.81	4.16	-3.1	-4.05
569	12.43813	14.64189	18.79182	569	4.82	4.17	-3.08	-4.05
570	12.45485	14.625	18.81041	570	4.8	4.16	-3.1	-3.97
571	12.38796	14.55743	18.86617	571	4.92	4.17	-3.09	-3.91
572	12.4214	14.57432	18.81041	572	4.79	4.17	-3.08	-3.99
573	12.43813	14.60811	18.79182	573	4.88	4.17	-3.08	-4.04
574	12.43813	14.57432	18.81041	574	4.87	4.17	-3.08	-4.04
575	12.40468	14.55743	18.84758	575	4.94	4.18	-3.07	-4.09
576	12.38796	14.57432	18.829	576	5.16	4.18	-3.06	-4.22
577	12.38796	14.59122	18.829	577	4.92	4.18	-3.07	-4.18

578	12.4214	14.57432	18.84758	578	4.84	4.18	-3.08	-3.99
579	12.38796	14.52365	18.81041	579	4.8	4.19	-3.07	-3.88
580	12.37124	14.50676	18.75465	580	4.94	4.2	-3.06	-3.95
581	12.37124	14.57432	18.75465	581	4.9	4.2	-3.08	-3.78
582	12.37124	14.59122	18.77323	582	4.81	4.2	-3.06	-3.85
583	12.38796	14.54054	18.79182	583	4.84	4.21	-3.06	-3.93
584	12.37124	14.57432	18.829	584	4.78	4.2	-3.07	-3.91
585	12.40468	14.60811	18.86617	585	4.91	4.21	-3.08	-3.74
586	12.43813	14.55743	18.829	586	4.88	4.21	-3.07	-3.63
587	12.43813	14.54054	18.79182	587	4.9	4.22	-3.06	-3.66
588	12.4214	14.57432	18.81041	588	4.83	4.23	-3.06	-3.72
589	12.4214	14.57432	18.75465	589	4.75	4.22	-3.06	-3.78
590	12.40468	14.52365	18.81041	590	4.73	4.22	-3.07	-3.71
591	12.43813	14.57432	18.84758	591	4.7	4.23	-3.05	-3.8
592	12.40468	14.59122	18.81041	592	4.88	4.22	-3.05	-3.87
593	12.48829	14.54054	18.829	593	4.89	4.23	-3.05	-3.91
594	12.45485	14.55743	18.829	594	4.93	4.24	-3.05	-3.82
595	12.43813	14.57432	18.77323	595	5.02	4.23	-3.06	-3.86
596	12.47157	14.54054	18.77323	596	4.86	4.23	-3.05	-3.93
597	12.40468	14.625	18.75465	597	4.75	4.23	-3.06	-3.98
598	12.4214	14.65878	18.73606	598	4.8	4.24	-3.07	-3.76
599	12.40468	14.59122	18.75465	599	4.84	4.25	-3.06	-3.79
600	12.40468	14.60811	18.86617	600	4.98	4.26	-3.06	-3.67
601	12.37124	14.59122	18.86617	601	5.02	4.25	-3.05	-3.78
602	12.38796	14.55743	18.79182	602	5.16	4.25	-3.05	-3.8
603	12.40468	14.59122	18.75465	603	5.01	4.25	-3.05	-3.76
604	12.4214	14.57432	18.77323	604	5.08	4.25	-3.05	-3.81
605	12.40468	14.48986	18.829	605	5.08	4.24	-3.06	-3.78
606	12.40468	14.55743	18.88476	606	4.97	4.25	-3.05	-3.78
607	12.4214	14.55743	18.88476	607	4.97	4.25	-3.05	-3.84
608	12.48829	14.625	18.88476	608	5.16	4.25	-3.05	-3.87
609	12.43813	14.59122	18.86617	609	4.94	4.25	-3.07	-3.87
610	12.4214	14.625	18.84758	610	4.95	4.26	-3.05	-3.84
611	12.38796	14.60811	18.84758	611	5.05	4.27	-3.02	-3.96
612	12.33779	14.60811	18.88476	612	5.07	4.26	-3.04	-3.87
613	12.38796	14.64189	18.88476	613	5.17	4.26	-3.03	-3.9
614	12.38796	14.60811	18.86617	614	4.87	4.27	-3.04	-3.82
615	12.45485	14.625	18.90335	615	4.95	4.27	-3.03	-3.88
616	12.47157	14.625	18.90335	616	4.88	4.27	-3.02	-3.96
617	12.48829	14.625	18.88476	617	4.99	4.27	-3.04	-3.89
618	12.48829	14.60811	18.92193	618	5.04	4.28	-3.02	-3.92
619	12.50502	14.69257	18.92193	619	4.94	4.28	-3.01	-3.97
620	12.43813	14.65878	18.92193	620	4.87	4.29	-3.01	-3.93
621	12.4214	14.67568	18.90335	621	4.82	4.3	-3	-3.99
622	12.48829	14.70946	18.86617	622	4.96	4.29	-3	-3.99

623	12.52174	14.65878	18.88476	623	4.9	4.29	-3	-3.99
624	12.50502	14.67568	18.90335	624	4.95	4.29	-3.01	-3.94
625	12.48829	14.65878	18.88476	625	4.84	4.3	-3	-3.87
626	12.43813	14.69257	18.84758	626	5.08	4.3	-2.99	-3.94
627	12.4214	14.67568	18.86617	627	4.96	4.29	-3	-3.91
628	12.43813	14.64189	18.84758	628	5.11	4.3	-3	-3.89
629	12.4214	14.65878	18.90335	629	4.9	4.3	-3	-3.88
630	12.4214	14.69257	18.86617	630	4.84	4.3	-3.01	-3.68
631	12.45485	14.65878	18.79182	631	5.02	4.3	-3	-3.78
632	12.47157	14.69257	18.86617	632	5.09	4.3	-3	-3.84
633	12.43813	14.69257	18.90335	633	5.05	4.29	-3	-3.97
634	12.43813	14.67568	18.90335	634	5.11	4.3	-3.03	-3.88
635	12.48829	14.625	18.88476	635	5.16	4.3	-3.02	-3.82
636	12.48829	14.64189	18.86617	636	5.06	4.3	-3.02	-3.86
637	12.52174	14.65878	18.86617	637	5.02	4.31	-3.03	-3.79
638	12.52174	14.67568	18.86617	638	5.05	4.31	-3.01	-3.77
639	12.50502	14.65878	18.88476	639	5.01	4.31	-3.01	-3.94
640	12.47157	14.625	18.88476	640	4.87	4.31	-3	-3.94
641	12.50502	14.67568	18.94052	641	4.95	4.31	-3	-4.02
642	12.47157	14.67568	18.88476	642	4.94	4.32	-3	-3.92
643	12.48829	14.69257	18.90335	643	4.9	4.32	-3	-3.84
644	12.48829	14.67568	18.94052	644	4.87	4.31	-3	-3.94
645	12.48829	14.70946	18.94052	645	4.83	4.32	-3	-3.86
646	12.48829	14.74324	18.94052	646	4.98	4.32	-3	-3.9
647	12.50502	14.69257	18.95911	647	5.03	4.32	-2.99	-3.93
648	12.52174	14.625	18.9777	648	4.89	4.31	-3	-3.9
649	12.53846	14.64189	18.95911	649	4.82	4.32	-3	-3.84
650	12.52174	14.60811	18.92193	650	4.96	4.32	-3	-3.82
651	12.52174	14.57432	18.92193	651	4.98	4.32	-3	-3.79
652	12.52174	14.60811	18.86617	652	4.96	4.32	-2.99	-3.8
653	12.55518	14.67568	18.92193	653	4.87	4.33	-2.98	-3.96
654	12.47157	14.65878	18.90335	654	4.89	4.33	-2.98	-3.99
655	12.43813	14.67568	18.94052	655	4.89	4.33	-3	-3.71
656	12.47157	14.64189	18.9777	656	5.1	4.33	-2.98	-3.88
657	12.43813	14.625	18.94052	657	4.99	4.32	-2.99	-3.97
658	12.43813	14.70946	18.88476	658	4.89	4.33	-2.99	-3.99
659	12.4214	14.67568	18.86617	659	4.92	4.33	-2.99	-3.95
660	12.47157	14.65878	18.88476	660	5.07	4.33	-2.99	-3.96
661	12.47157	14.69257	18.94052	661	4.88	4.33	-2.98	-4.01
662	12.47157	14.67568	18.92193	662	4.83	4.34	-2.98	-3.96
663	12.50502	14.69257	18.88476	663	4.99	4.34	-2.98	-3.95
664	12.52174	14.67568	18.92193	664	4.94	4.34	-2.98	-4.01
665	12.53846	14.65878	18.95911	665	5.03	4.34	-2.99	-3.9
666	12.53846	14.70946	18.92193	666	4.99	4.34	-2.99	-3.91
667	12.53846	14.72635	18.88476	667	4.97	4.35	-2.97	-3.93

668	12.55518	14.69257	18.92193	668	4.99	4.34	-2.99	-3.92
669	12.55518	14.67568	18.90335	669	4.98	4.35	-2.98	-3.81
670	12.50502	14.69257	18.90335	670	4.98	4.34	-2.98	-3.96
671	12.57191	14.64189	18.88476	671	4.87	4.36	-2.99	-3.89
672	12.53846	14.60811	18.88476	672	4.93	4.36	-2.97	-3.83
673	12.47157	14.55743	18.92193	673	4.94	4.36	-2.97	-3.9
674	12.47157	14.64189	18.88476	674	4.98	4.37	-2.97	-4.01
675	12.45485	14.64189	18.88476	675	4.92	4.36	-2.98	-3.96
676	12.47157	14.59122	18.86617	676	4.9	4.36	-2.98	-4
677	12.45485	14.625	18.86617	677	4.88	4.36	-2.98	-3.99
678	12.47157	14.69257	18.84758	678	5.01	4.37	-2.97	-3.93
679	12.47157	14.67568	18.88476	679	4.95	4.37	-2.98	-3.74
680	12.43813	14.60811	18.86617	680	5.03	4.36	-2.97	-3.79
681	12.4214	14.59122	18.81041	681	4.91	4.36	-2.97	-3.74
682	12.45485	14.60811	18.88476	682	4.92	4.37	-2.96	-3.83
683	12.43813	14.60811	18.90335	683	5.03	4.37	-2.95	-3.95
684	12.43813	14.67568	18.86617	684	4.96	4.37	-2.96	-3.99
685	12.45485	14.70946	18.84758	685	4.95	4.38	-2.95	-3.92
686	12.48829	14.69257	18.86617	686	4.83	4.38	-2.94	-3.94
687	12.47157	14.67568	18.90335	687	4.86	4.38	-2.94	-3.96
688	12.48829	14.69257	18.92193	688	4.93	4.39	-2.94	-3.98
689	12.53846	14.72635	18.90335	689	4.92	4.38	-2.94	-4
690	12.55518	14.77703	18.88476	690	5.08	4.38	-2.96	-3.88
691	12.53846	14.76014	18.94052	691	4.99	4.37	-2.96	-3.91
692	12.48829	14.74324	18.9777	692	5.01	4.38	-2.95	-3.84
693	12.48829	14.72635	18.95911	693	5.14	4.38	-2.95	-3.9
694	12.47157	14.67568	18.9777	694	5.04	4.39	-2.95	-3.94
695	12.48829	14.69257	18.99628	695	4.88	4.39	-2.95	-3.99
696	12.50502	14.74324	18.94052	696	5.24	4.39	-2.95	-4.03
697	12.48829	14.74324	18.94052	697	5.02	4.38	-2.95	-4.13
698	12.47157	14.74324	18.94052	698	4.93	4.38	-2.95	-4.06
699	12.47157	14.79392	18.95911	699	4.98	4.38	-2.95	-4.04
700	12.52174	14.76014	18.95911	700	4.95	4.38	-2.94	-4.05
701	12.57191	14.79392	19.01487	701	4.97	4.39	-2.93	-4.04
702	12.55518	14.81081	18.95911	702	4.86	4.4	-2.93	-4.07
703	12.55518	14.79392	19.03346	703	4.99	4.39	-2.94	-4.06
704	12.55518	14.77703	19.07063	704	4.69	4.39	-2.93	-4.07
705	12.53846	14.79392	19.01487	705	4.89	4.39	-2.94	-3.97
706	12.52174	14.79392	18.9777	706	4.97	4.39	-2.96	-3.85
707	12.48829	14.84459	18.94052	707	5.09	4.39	-2.94	-3.81
708	12.52174	14.77703	18.90335	708	4.94	4.39	-2.94	-3.85
709	12.55518	14.76014	18.94052	709	4.88	4.39	-2.94	-3.88
710	12.58863	14.8277	18.95911	710	5	4.4	-2.92	-3.83
711	12.58863	14.81081	18.94052	711	4.98	4.4	-2.93	-3.9
712	12.53846	14.72635	18.95911	712	5.01	4.4	-2.92	-3.97

713	12.50502	14.70946	19.01487	713	4.93	4.39	-2.92	-4.05
714	12.55518	14.77703	19.03346	714	4.96	4.39	-2.93	-4.06
715	12.55518	14.84459	18.9777	715	4.85	4.39	-2.93	-4.06
716	12.57191	14.79392	18.9777	716	4.92	4.4	-2.92	-4.08
717	12.55518	14.79392	19.05204	717	4.99	4.4	-2.92	-4
718	12.52174	14.86149	19.03346	718	4.97	4.4	-2.91	-4.06
719	12.52174	14.79392	18.95911	719	4.96	4.39	-2.93	-3.97
720	12.60535	14.69257	18.92193	720	4.8	4.39	-2.95	-3.48
721	12.57191	14.70946	18.94052	721	4.86	4.39	-2.93	-3.68
722	12.50502	14.70946	18.94052	722	5.01	4.4	-2.92	-3.88
723	12.48829	14.70946	18.94052	723	5.02	4.39	-2.94	-3.73
724	12.50502	14.69257	18.99628	724	5.09	4.4	-2.92	-3.77
725	12.52174	14.65878	18.94052	725	5.1	4.4	-2.92	-3.88
726	12.53846	14.70946	19.01487	726	4.9	4.4	-2.93	-3.77
727	12.55518	14.70946	18.99628	727	5.05	4.4	-2.92	-3.93